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APRIL 10, 1948

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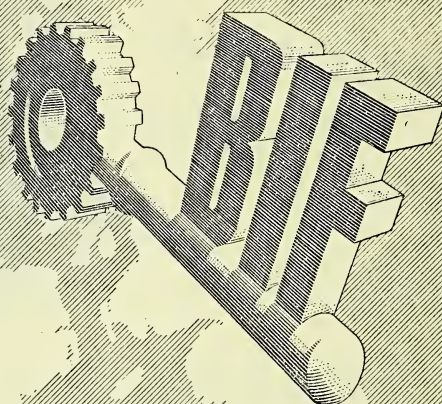
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A

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11
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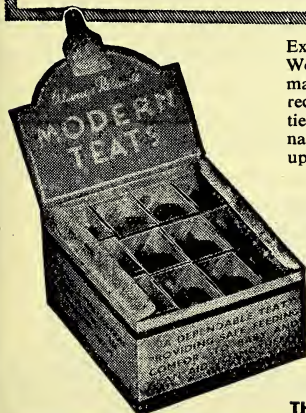


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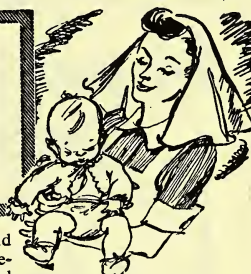
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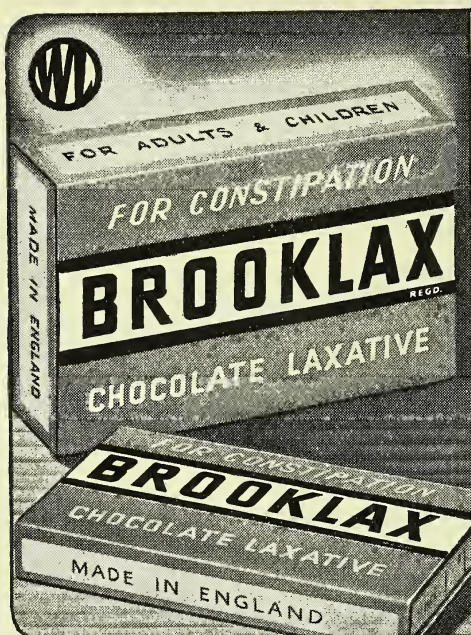
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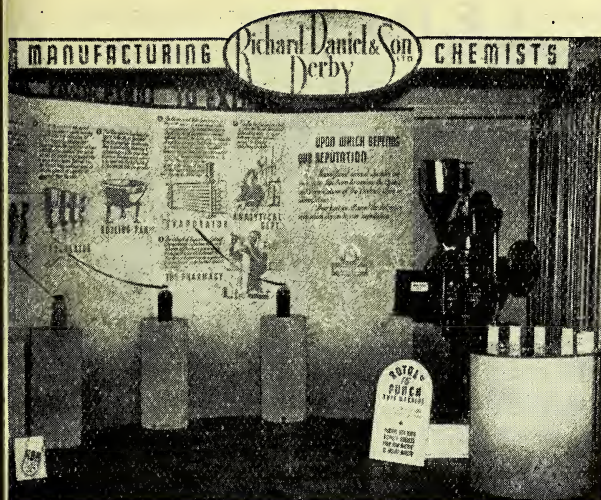
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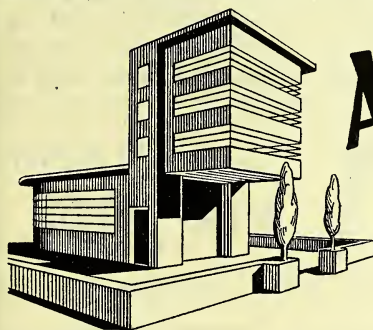
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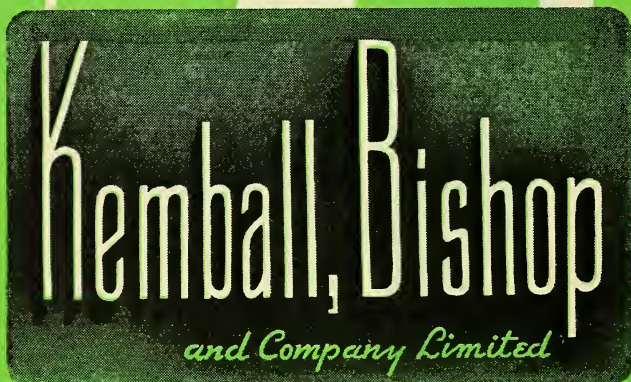


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A complex ferric ammonium citrate.

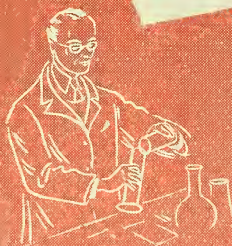
Properties. Thin dark reddish brown transparent scales, or a granular powder with an astringent taste. Very soluble in water.

Standard. The standard grade manufactured for medicinal purposes should comply with the requirements of the British Pharmacopœia in all respects.

Uses. Ferric Ammonium Citrate is one of the most widely used and generally prescribed preparations of iron. It is one of the least astringent compounds of iron and for this reason is often favoured. A green variety of ferric ammonium citrate is also used medicinally but is more frequently employed in the preparation of photographic blue print paper.

Packages. 28 lb. tins.

Manufacturers: THOMAS TYRER & CO. LTD.
Stratford, London, E.15

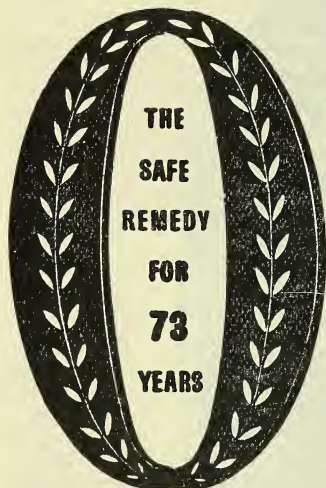


STERLING
Brand Chemicals

**SOAP
SHAVING STICK
OINTMENT
TALCUM**



*-for Sensitive
Skins!*



for coughs and colds

OWBRIDGE'S

Again—for the 74th year—Owbridge launch a new, arresting advertising campaign in the National Daily, Sunday, and Provincial Press—in Magazines—on Poster Sites—and Underground Railway Carriages to support the sales of this famous remedy. New window and counter display material is available to tie up with this national campaign.

PRICE 1/5 INCLUDING PURCHASE TAX

PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis. Mag. Oxide Pond.
 Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers
by the sole manufacturers :

**The WASHINGTON CHEMICAL
CO. LTD.**

A MEMBER OF THE
TURNER & NEWALL ORGANISATION.

**WASHINGTON
CO. DURHAM**

London Office:
Everite House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10

ANTIPHLOGISTINE

SELLS BECAUSE IT'S USED FOR . .

Chest Colds	-	Sprains
Boils	-	Bruises
Wrenched Muscles		

PATA

EXTRA DISCOUNTS
£2 and £5 ORDERS



HUMAN AND VETERINARY

Antiphlogistine
TRADE MARK

THE DENVER CHEMICAL MFG. CO.
LONDON, N.W.9

CHEMICALS FOR ALL PURPOSES:
PAINT MEDICINE PHOTOGRAPHY
AGRICULTURE TANNING GLASS
FOODSTUFFS CONFECTIONERY
PLASTICS RUBBER TEXTILES
DYESTUFFS PERFUMERY

An aerial, black and white photograph of a city, likely London, showing a dense urban landscape with numerous buildings and a large, central park area with trees and a winding path. The image is used as a background for the advertisement text.

**R. W. GREEFF
& CO. LTD.**

HEAD OFFICE:
12, FINSBURY CIRCUS, LONDON, E.C.2.
LONDON WALL 5241 • WIRES: GREEFF, AVE. LONDON
and THE ROYAL EXCHANGE, MANCHESTER 2.
BLACKFRIARS 9407-8 • WIRES: GREEFF, MANCHESTER

Banishes Scurf & Dandruff

New attractive
DISPLAY STANDS
supplied !



PLUS TAX - ONE THIRD

Distributors to Chemists: SALE TILNEY (Marketing) LTD.,

DR. HARR'S
6.8.6.B
SCURF & DANDRUFF LOTION

3 LLOYDS AVENUE, LONDON, E.C. 3

BLYTON ASTLEY & CO., LTD.

Eagle Laboratories

LOWER BROUGHTON, MANCHESTER

thank their customers for their patience and forbearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased.

GROUND

DRIED YEAST

MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

Tablets and Pills Packed or Bulk

ASPIRIN

Private formulæ Pills and Tablets carefully and accurately prepared at lowest possible prices

CASCARA

Latest Automatic Pill Plant

and all

WE WELCOME ENQUIRIES

TABLETS and PILLS

CASTLE HUSKISSON LTD.

MANUFACTURING CHEMISTS

SWINTON WORKS, MOON STREET, ISLINGTON
LONDON, N.1

Telephone : Canonbury 3466

ESTABLISHED 1768

Good

SALES · PROFITS · ADVERTISING

make

Phillips' Products

STEADY FAVOURITES WITH THE TRADE

'CALIFORNIA SYRUP OF FIGS'
REGD.

PHILLIPS' DENTAL MAGNESIA
REGD.

'MILK OF MAGNESIA'
REGISTERED TRADE MARK

'MIL-PAR'
REGD.

PHILLIPS' MAGNESIA BEAUTY CREAMS

'DANDERINE'
REGD.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.

179, ACTON VALE, LONDON. W.3.

Helena puffs



The world's finest Puffs, made by the world's leading Puff manufacturers. All sizes—60 designs—in Swansdown, Lambskin, Lamb's-wool, Beaver and Velour. Hygienically made, most attractively packed and nationally advertised.

Please apply to your local Wholesaler for details.

HELENA PRODUCTS
NEW SOUTHGATE, N.11

R5

Nearly Five times the Profit

FOR
ONE-SIXTH OF
THE TROUBLE

The 26/5 size 'Curicones'—the FULL treatment—is the size your customers ask for. This choice is wise both from their point of view and your own.

YOU ENJOY THESE ADVANTAGES BY STOCKING THE 'CURICONES' 26/5 SIZE

1. You make nearly five times the profit for one-sixth of the trouble. (The 26/5 size contains six times the quantity of the 5/6 size).
2. You sell the equivalent of six bottles of 'Curicones' at one sale—and thus avoid the customer buying only one bottle from you, and the other five bottles elsewhere.
3. Your turnover is quicker. Time is saved.
4. You are cementing goodwill with customers needing the longer course of 'Curicones.'

ORDER A $\frac{1}{2}$ DOZ. FROM YOUR WHOLESALE TO-DAY—and satisfy your customers.

CURICONES

 for the relief of **PATA**
RHEUMATISM and KINDRED ILLS

Remember 'Curicones' is a P.A.T.A. Line showing 33 $\frac{1}{3}$ % profit, nationally advertised and recommended by the medical profession. Showcard sent on request.

Large Size

26/5

STEPHEN MATTHEWS & COMPANY LIMITED
19/21 FARRINGTON STREET, LONDON, E.C.4

MISSING



As we are now getting 100% co-operation from practically every chemist in the Country, the public must be holding up the 1,130,000 Ribena bottles that are missing.

Bottle shortage is still the chief factor that limits the supply of Ribena. Anything further you can do, therefore, to persuade your customers to bring back an empty bottle every time they come in for a full one will help them, help you and help us.

Whenever you have a few "empties" please forward them by the same channel and route as that by which you receive your full supplies. It is kinder to us if you send small quantities regularly than large batches now and again.

H. W. CARTER & CO. LTD., THE OLD REFINERY, BRISTOL, 2.

It's by Pears
It's new...
It's different

Gloria

Liquid Shampoo

CONTAINING
OLESTOL

It's backed by
one of the most
powerful adver-
tising campaigns
in recent years...

PRESS...

CINEMAS...

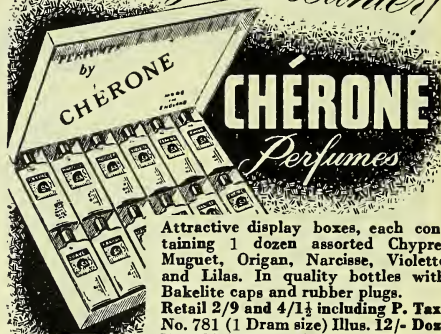
HOARDINGS...



- 1 Leaves every single hair perfectly clean.
- 2 Gives hair extra shine.
- 3 Reveals exciting new natural tints in the hair.
- 4 Does not "parch" hair or scalp.
- 5 Leaves the hair healthily supple and so easy to do, right away.

A. & F. PEARS LTD., ISLEWORTH, MIDD. X. PGT. 1. 923

*A quick-selling line
for your counter!*



Attractive display boxes, each containing 1 dozen assorted Chypre, Muguet, Origan, Nardisse, Violette and Lilas. In quality bottles with Bakelite caps and rubber plugs.

Retail 2/9 and 4/1½ including P. Tax.
 No. 781 (1 Dram size) Illus. 12/- Dos.
 No. 783 (2 Dram size) 18/- Dos.
 Flat square bottles

Plus Purchase Tax 125%
 Carriage Paid, Packing Free.

Please order early to ensure prompt delivery

dellwood limited

creators of high-grade perfumery
 SUTHERLAND ROAD . LONDON . E.17



HIOLITE

Formulated on sound dermatological principles.

Well packed, ample supplies, attractive show material.

Backed by local advertising to be followed by national advertising.

Distributed by:—

NEWBERY & PHILLIPS Ltd

VICTORIA HOUSE SOUTHAMPTON ROW. LONDON W.C.

Manufactured by C. Draper Ltd. Twyford, Berks.



Make 2 sales

WHERE YOU ONLY MADE  BEFORE

"Yes, Madam, here's Johnson's Baby Powder for after every bath . . . and you'll be needing Johnson's Baby Lotion for after nappie changes."



Johnson's BABY LOTION is a pleasant, antiseptic lotion for cleansing, soothing, lubricating and protecting a baby's skin from infection. Especially good for preventing "nappie rash." Will not stain clothes nor turn rancid.

JOHNSON & JOHNSON (GT. BRITAIN) LTD., SLOUGH & GARGRAVE

LONDON **VALDOR** PARIS

LIPSTICK *Guitare*

SUPER INDELIBLE

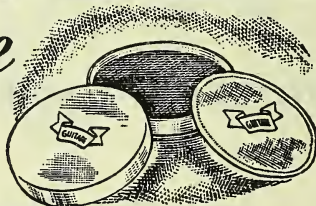
—does NOT come off!

in 8 transparent shades which are smearless and smudgeless and remain fast to eating, drinking, etc., for at least 8 hours.

ROUGE *Guitare*

IN EIGHT SHADES TO MATCH

the lipstick. Of perfect tone and texture. Rouge Guitare is sought after by all smart women for enhancing natural beauty.



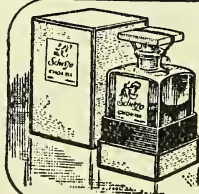
Guitare

**MAKE-UP
FOUNDATION**

Does not dry the skin. A delightful skin conditioning creamy foundation. In 8 shades. It contains Lanolin and cannot dry the skin.

ARCANCIL *MASCARA*

Lengthens and strengthens the lashes. Contains no caustic or other harmful ingredient. Does not smart. Does not run. In four shades and colourless. Tube or cake. A big favourite with modern women.



High Class French Perfume PARFUMS **CHOPIN**

Mazurka, Berceuse, Scherzo. Three exquisite perfumes from Paris to intrigue and delight all smart fashionable women.

SALE, TILNEY & CO., LTD., 3, Lloyds Avenue, London, E.C.3

MANESTY

TABLET MAKING MACHINERY



**MANESTY
F
TABLET
MACHINE**
—
OUTPUT
90
PER MIN.

FOR TABLETS UP TO $\frac{3}{4}$ " DIAM.



**MANESTY
N1
TABLET
MACHINE**
—
OUTPUT
90 PER MIN.

FOR TABLETS
UP TO $\frac{1}{2}$ " DIAM.



**MANESTY
E
TABLET
MACHINE**
—
OUTPUT
90-100
PER MIN.

FOR TABLETS UP TO $\frac{1}{2}$ " DIAM.



**MANESTY
HAND
COMPACT
PRESS**
—
OUTPUT
2000
COMPACTS
PER DAY

**MANESTY
COPPER
COATING
PAN**
—
STANDARD
SIZE
30" DIAM.



**MANESTY
B.B.3
ROTARY
TABLET
MACHINE**
—
OUTPUT
1000-1500
PER MIN.

FOR TABLETS UP TO $\frac{1}{2}$ " DIAM.



**MANESTY
N2
TABLET
MACHINE**
—
OUTPUT
55-220
PER MIN.

FOR TABLETS UP TO $\frac{1}{2}$ " DIAM.



**MANESTY
R.S.1
ROTARY
TABLET
MACHINE**
—
OUTPUT
168-336
PER MIN.

FOR TABLETS UP TO $\frac{3}{8}$ " DIAM.

BRITISH INDUSTRIES FAIR

1948



1948

OLYMPIA &
EARLS COURT
MAY 3-14

SEE OUR EXHIBIT

OLYMPIA Stand E.99

**MANESTY
B3
ROTARY
TABLET
MACHINE**
—

OUTPUT
400-500
PER MIN.

FOR TABLETS UP TO $\frac{1}{2}$ " DIAM.



**MANESTY
D3
ROTARY
TABLET
MACHINE**
—

OUTPUT
300-350
PER MIN.

FOR TABLETS UP TO 1" DIAM.



**MANESTY
N3
TABLET
MACHINE**
—

OUTPUT
30-400
PER MIN.

FOR TABLETS UP TO $2\frac{1}{8}$ " DIAM.



**MANESTY
OSCILLATING
GRANULATOR**
—

OUTPUT
150-224
LBS.
PER HOUR

**MANESTY
MIXER**
—

CAPACITY
100 LBS.
OF POWDER

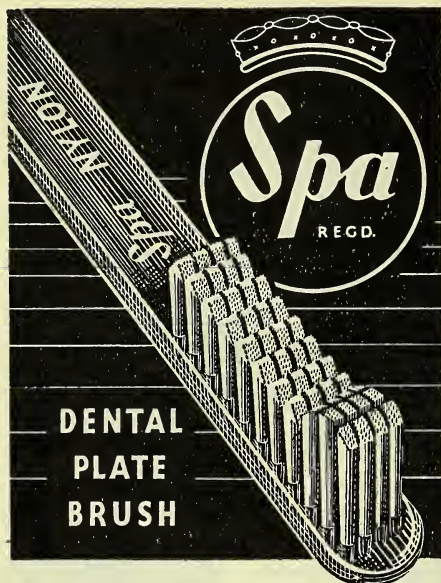


MANESTY MACHINES LIMITED

5 SPEKE HALL ROAD, LIVERPOOL, 19

TELEPHONE: HUNTS CROSS 1321

TELEGRAMS: MANESTY, LIVERPOOL



*designed specially
for the job*

A Dental Plate Brush has a double job to do—it must clean every part of the plate as well as the dentures. No ordinary brush—and no adapted tooth-brush—can do this.

The SPA Dental Plate Brush has been specially designed for its particular job. The handle is correctly shaped. The bristles are of the right hardness, length and spacing.

The price is right. The PROFIT is right. It's a P.A.T.A. line. And it's a quick seller.



John Freeman & Co. Ltd.,
Spa Brush Works, Chesham, Bucks.

Supplies
now
available



For the present only a very small allocation—we'll share this fairly amongst our customers but we hope larger supplies will soon be available.

DEPT. A)

Madelox Limited

TELEPHONE
BLA children
0177/6

Sole Distributors for the British Isles
168 · CORPORATION STREET
MANCHESTER · 4

'SEPTISOL'

for Diaper Rash

**NURSERY
OINTMENT**



'SEPTISOL'

for Better Baby Bathing

**BABY
SOAP**



Give Profit and Prestige, and ensure Repeat Demand
Constant Advertising makes every Mother Familiar
with these Products

'SEPTISOL' LIMITED
28 KENNEDY ST.
MANCHESTER 2.



POTTER'S ASTHMA REMEDY



Revised "Budget" Prices
Price 2/5 per Tin (inc. tax)
Wholesale 18/- per Doz., plus 6/- per Doz. Tax
Packed in half dozens

Well advertised and world famous
A sound selling line for every Chemist

POTTER & CLARKE L^{TD}

60-64 Artillery Lane, LONDON, E.1.

Telephone: BISHopsgate 4761

and

77 Dantzic Street, MANCHESTER 4.

Telephone BLAckfriars 8734

*Have
you heard*

... about the GRANDEE - Goya's new extra-large lipstick? Made in the popular 13 m.m. 'American' size, the GRANDEE retails at the very reasonable price of 8/6d., including tax. The GRANDEE is packed in individual cartons in attractive display outers of 1 dozen and the trade price is 37/6d. per dozen, subject to tax. The GRANDEE with its 'slick twist' action is identical in quality to Goya's one-band automatic lipstick, which is, of course, still available, and is produced

in the same range of colours - Seventeen, Cherry, Trinidad, Basque, Petunia, Burgundy and Goya Pink, the new lovely shade so appropriate to the look of delicate femininity of to-day's new fashions. The GRANDEE is being given considerable publicity in women's journals, and in the national press.

Goya

161 NEW BOND STREET LONDON W1

**National Advertising
is creating a demand
for**

Nuctone **SAFE FOR GREY HAIR**

**THE NATURAL AND
PERMANENT HAIR TINT**
now available in two sizes and
four grades attractively packed for
home use.

*Special introductory parcel sent
C.O.D. containing 9 small size
Nuctone assorted. Total Cost 17/8 +
17/8 Tax — £1-15-4*

**POST AND C.O.D. CHARGES FREE
SHOWCARD PROVIDED**

Export enquiries invited

**STEWART, GOODALL & DUNLOP, LTD.
121A PRINCES ST., EDINBURGH
ON P.A.T.A. LIST**

SAVE PURCHASE TAX AND INCREASE YOUR PROFITS BY MAKING YOUR OWN LIQUID STOCKING!!
We can supply **MATTENE** Liquid Stocking Colour in four popular shades (**BEIGE, TAN, DARK TAN AND GUNMETAL**) at 8/- per lb. or 7/9 per lb. in 7 lb. lots. Formula will be supplied free of charge.
**HARMAN DIETETIC LABORATORIES, LIMITED,
CAVENDISH WORKS, NORTH PARADE, BURNT OAK, MIDDX.**
Tel. No. EDGware 8286.

AMPOULES

Ampouled Injections and Powder Ampoules in large or small quantities. Specialist production under experienced Chemical and Medical supervision.

Trade enquiries invited

MARKWELL, EDWARDS & CO. LTD.
589, High Road, London, N.12 Hillside 5806

Good Business...

...and sound sense to stock 'HERBALENE,' a pure herbal non-habit forming laxative, and the other fine herbal products made by Lusty's Natural Products Company. National advertising and the recommendations of satisfied users have built up a demand which you can help to satisfy.

Write to address below for full details.

LUSTY'S NATURAL PRODUCTS CO.
WESTCLIFF - ON - SEA : : ESSEX

Advance news of 'SKETOFAK' for 1948

TRADE MARK

NEW

displays

NEW

Bonus scheme

NEW

"Woman's appeal" in NATIONAL ADVERTISING

Tests confirm that Women are main buyers of 'Sketofax'. New 1948 campaign includes leading National Magazines, such as:

Woman & Home	Good Housekeeping
Woman's Journal	Homes & Gardens
Woman's Own	Modern Woman
Home Notes	Woman's Friend
Woman	Britannia & Eve

Estimated readership — 14,970,000



'Sketofax' CREAM, the *most effective* Insect Repellent, now carries this Bonus on every order:

ONE FREE TUBE given with every dozen (minimum Bonus order three dozen Tubes)

— plus a striking Counter Display specially appealing to Women — plus national advertising throughout the country (see details at left).

'Sketofax', which contains D.M.P., has been developed and its effectiveness proved under controlled conditions in the Wellcome Research Laboratories. Don't miss this Spring-Summer-Autumn business. Order now. 'Sketofax' Cream retails at 1/4, plus purchase tax.

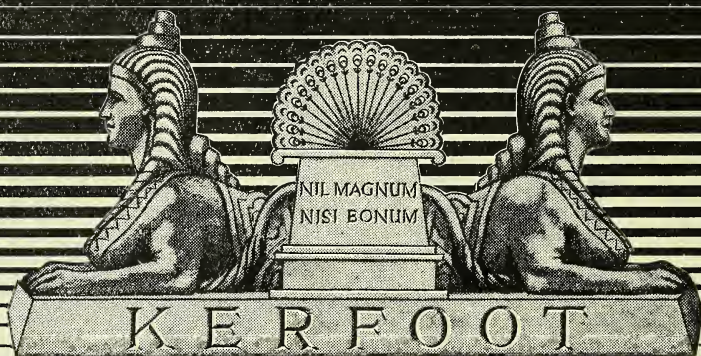


BURROUGHS WELLCOME & CO.

(The Wellcome Foundation Ltd.)

183 - 193, EUSTON ROAD, LONDON, N.W.1.

For BACTERIOLOGICAL SUGARS



ARABINOSE • CELLOBIOSE • DEXTRINE (Prep. by precipitation) • DEXTROSE (Cryst. Anhydrous)
 DULCITOL • GALACTOSE • INOSITOL • INULIN • LACTOSE • LÆVULOSE • MALTOSE
 MANNITOL • RAFFINOSE • RHAMNOSE • SACCHAROSE • SORBITOL • SORBOSE • XYLOSE

THOMAS KERFOOT & CO., LTD. VALE of BARDSLEY, LANCASHIRE

K23

EUPNINE VERNADE

ANTI-DYSPNOEIC

THE ORIGINAL STABLE SOLUTION OF
 CAFFEINE IODIDE

Eupnine Vernade is a 10 per cent. solution of Caffeine Iodide. The active substance is dissolved in a special medium which fulfils essential conditions and ensures the stability of the caffeine salt.

Indicated in the treatment of:

**ASTHMA, HAYFEVER
 EMPHYSEMA, BRONCHITIS, ETC.**

Send for complete list of all French Proprietary medicines now being imported

RETAIL
 PRICE

6/2

**Wilcox,
 gozeau**
 & CO. LTD

WHOLESALE

44/4

excluding P.T.

74-77, WHITE LION ST. LONDON, N.1.

ESTD. OVER 100 YEARS

19, TEMPLE BAR, DUBLIN

The CHEMIST AND DRUGGIST

for RETAILER — WHOLESALE — MANUFACTURER

APRIL 10, 1948

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Single copies 1/- each. Annual subscription, which includes *The Chemist and Druggist Diary and Year Book*, 30/-

No. 3555

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NEWS OF THE WEEK

Candidates for Council Election.—The following have accepted nomination in the forthcoming election to the Council of the Pharmaceutical Society of Great Britain:—

BEARDSLEY, W. J., Woodford Green, Essex.

CARGILL, T. S., Hull.

DEACON, W., Bridgwater, Somerset.

GILMOUR, J., Liverpool.

GRIFFITHS, E. T., Cardiff.

HIRST, H. M., Scarborough.

HOWELLS, W. S., Richmond, Surrey.

INMAN, C. W., Guisborough, Yorks.

MCNEAL, J. F., Amersham, Bucks.

MELDRUM, A. A., Aberdeen.

ROSS-MANSELL, J., Edgware, Middlesex.

SHAW, H. C., Hanley, Staffs.

WILSON, F. C., London, S.W.19.

The following were nominated but did not accept nomination: G. H. Armitage, R. Macdonald Murray, J. Anderson Stewart.

Purchase Tax Interpretations.—The Commissioners of Customs and Excise announce the following legal interpretation of entries in the Purchase Tax (No. 1) Order, 1948 (which extends the list of drugs and medicines exempted from tax, see *C. & D.*, Feb-

ruary 7, p. 176, and April 3, p. 430):—
 "Trichlorethylene, whether with or without a stabiliser or a colouring agent," is taken to cover a mixture of trichlorethylene with a stabiliser and a colouring agent; "Aqueous solutions of glucose or sodium chloride, whether containing a preservative or not" covers aqueous solutions of glucose and sodium chloride; "Protein hydrolysates, whether containing sugars or flavouring agents, or not" covers protein hydrolysates with sugars and flavouring; "Liver extracts and active principles of liver whether or not combined with a salt of iron or dried yeast" covers liver extract and active principles of liver combined with a salt of iron and dried yeast; the entry in Head III relating to preparations of stomach covers such preparations with a salt of iron and dried yeast. The interpretations will be incorporated in the revised Customs and Excise Notice No. 78B when printed.

Health Minister's Statement.—The Minister of Health (Mr. Aneurin Bevan) made a statement in the House of Commons on April 6, recalling his earlier pledge that it was not the Government's intention to

introduce a full-time medical service, and adding that it seemed clear something more was needed. He accepted the suggestion (put forward by the Royal College of Physicians, see below) that he should now make it clear that a whole-time service would not be brought in by regulation, but would require new legislation. "My colleagues and I accept that most cordially." As a result of the partnership agreement inquiry, a short clarifying Bill might be needed. If so, he would take the opportunity, and if not, invoke an opportunity, specially to ask Parliament also to clarify its intentions about any full-time service.

[The Royal College of Physicians recently suggested (a) that, as a step towards securing the willing co-operation of doctors in the National Health Service, it should be made clear by an amending Act that a full-time service should not be brought in by regulation; and (b) that, to allay fears about powers at present possessed by the Minister to change by regulation the character of the service, regulations affecting the service should be subject to special procedure. In a letter printed in "The Times" on April 7, Dr. H. Guy Dain (chairman of Council, British Medical Association) wrote that he agreed the proposal would go a long way towards meeting the ideas of the medical profession, but added, "I should be failing in my duty if I did not make clear that this single change, suggested by many and now repeated by the Royal College of Physicians, would not be regarded by the profession as sufficient and satisfactory."].

Health Films.—Films prepared for the Ministry of Health by the Central Office of Information were introduced to a selected audience on April 6 by Mr. John Edwards (Parliamentary Secretary to the Ministry of Health), who said that it had been proved that health education had valuable results. The outstanding item in the programme was a ten-minute cartoon film "Your Very Good Health," showing how the provisions of the new National Health Service will affect a comic character "Charley" and his family. "Playing with Fire" (ten minutes), prepared with the assistance of Dr. and Mrs. Colebrook (Birmingham Accident Hospital), is a "horror" film to warn parents of the precautions that ought to be taken by them to reduce the annual death rate of 600 children from burns and scalds at home. "Your Children's Sleep" (twenty-two minutes) deals with psychological problems of parents in securing sound, healthy sleep for their chil-

dren. The three films are, or shortly will be, available through the Central Film Library in 16 and 35 mm. widths. One-minute trailers, "All Fall Down" (on coughs and sneezes) and "Diphtheria No. 10" (on immunisation) were also shown.

Chemists Federation.—At a meeting of the Chemists Federation Council held on April 1, the president in the chair, four applications for wholesaler membership were considered but were not accepted. Of four applications for manufacturer membership, two were deferred for further consideration and the following accepted: Ferris & Co., Ltd., 13 Redcross Street, Bristol, 2 (all eligible pharmaceutical products); Luma Products, Ltd., 53 Blandford Street, London, W.1 (Luma anti-rheumatic compound). The following additions to schedules of existing C.F. agreements were approved: Allied Laboratories, Ltd. (Cytogene, Restamon); Damancy & Co., Ltd. Dellipsoids triple iron pill, Dellipsoids dextro amphetamine sulphate, Dellipsoids dextro amphetamine co.; Rybar Laboratories, Ltd. (Rybaferin tablets); Sharp & Dohme, Ltd. (Elixir Virvina, Dermogestic ointment, Prothricin, Depropanex); Westminster Laboratories, Ltd. (Magtriz digestive tablets, Kipak vapour rub, Kiuma ointment, small size). The Council accepted the resignation from manufacturer membership of the Curacho Company and authorised the deletion of the company's name from the C.F. List. The Council ruled that, in general, preparations for internal use containing D.D.A. drugs were not eligible for inclusion in the C.F. List as Class B products.

T.S.A. Penicillin Licences.—A further list of holders of licences for dispensing penicillin injections under the Therapeutic Substances Act, 1925, is given below (previous lists were published on February 28, p. 285, and March 13, p. 325):—**ABERDARE**, Emrys Evans & Son, 9 Victoria Square; **BARRY DOCK**, R. M. Howell, 80 Holton Road; **BATH**, Charles Jenkin & Son, 84 Lower Bristol Road; **CARLISLE**, I. L. Robson, 46 Warwick Road; **LETCHWORTH**, E. E. Russell, 17 Station Road; **LIVERPOOL**, Boots, Ltd., 11 London Road, 3; **LONDON**, T. Kennedy Black, Ltd., 142 St. John's Wood High Street, N.W.8; **W. Pickard** (Booth & Pearce, Ltd.), 80 North End Road, West Kensington, W.14; **TUNBRIDGE WELLS**, J. H. Bishop, Ltd., 14 Mount Pleasant; **WREXHAM**, L. Rowland & Co., Ltd., 9 High Street.

LOCAL NEWS

Southend Branch Lecture.—A lecture on chemical methods used in diagnosis and control of treatment was given by Dr. H. E. Archer, Ph.C., at a meeting of the Southend-on-Sea Branch of the Pharmaceutical Society on March 19.

Sheffield Women Pharmacists.—At a meeting of the Sheffield Branch of the National Association of Women Pharmacists on March 15, Mr. A. L. Bacharach (Glaxo Laboratories, Ltd.) spoke on "Laboratory Animals," illustrating his talk with lantern slides.

Pathologist Addresses Pharmacists.—At a recent meeting of the North Staffs Branch of the Pharmaceutical Society, Dr. A. J. McCall (pathologist, North Staffs Royal Infirmary) spoke on "The Treatment of Blood Diseases." Members were invited to visit the pathological laboratory of the infirmary.

Harrow Annual Dinner.—At the annual dinner and dance of the Harrow Branch of the Pharmaceutical Society on March 24, a toast to the Society was proposed by Mr. F. J. Conduit, Mr. F. C. Wilson (a member of the Society's Council) replying. Mr. T. D. Whittet, replying to "The Guests," congratulated the branch committee on having organised an extensive course of post-graduate lectures.

Penicillin for Export.—Miss Ida Townsend (an executive director of Glaxo Laboratories, Ltd., Greenford) visited the company's penicillin plant at Barnard Castle on March 18 to address the staff on "Penicillin and the Export Gap." Sir Robert Hutchings was in the chair. Miss Townsend said there was no limit to the quantity of penicillin which could be sold; it was on the essential imports list of every country.

Semi-Jubilee Dinner.—Seventy-five members of the Dundee and East and Central Scottish Branch and friends attended the semi-jubilee dinner of the Branch in Dundee on March 18, including guests from other Scottish branches. The guest of honour, the president (Mrs. Jean K. Irvine), was accompanied by Mr. P. Irvine. The chairman (Mr. A. R. Lowson) remarked on the presence of several founder members of the Scottish branches: Messrs. J. R. Milne (first chairman), J. Anderson (first secretary), J. Jack, Arbroath, M. MacFarlane, Forfar (members of the original committee). Mr. J. H. Thomson, Lochee, aged ninety-two, the oldest member

of the branch, was unable to be present. Mr. J. Anderson proposed "The President," Mrs. Irvine replying. Mrs. Irvine said the present was a time of real hard work which could be the beginnings of a good habit. Mr. Drummond, Edinburgh, proposing "The Branch," made reference to Messrs. J. R. Milne (one of the founder members), J. Anderson (secretary in 1923, later for two years chairman) and F. W. M. Bennett. Mr. J. R. Milne replied to the toast and gave information about the formation of the Scottish Branches in 1923. Mr. Graham Mitchell (vice-chairman of the Branch) proposed "The Guests," Mr. R. McCrone replying.

Sixty Years on the Register.—At the annual dinner of the Chester Branch of the Pharmaceutical Society, held on March 17, the guest of honour was Mr. T. Carter, Ph.C., who had completed sixty years on the register of the Society. Attending the dinner were four local pharmacists (Messrs. Carter, R. W. Dunn, R. Randall Roberts and E. Shufflebotham) whose qualified service totalled more than 216 years. The chairman (Mr. R. Park Taylor), proposing "The Pharmaceutical Society," reviewed the activities of the branch throughout the year and thanked the committee for its work and members for their support. He welcomed the education policy of the Society, saying that it proved the desire of the Society to keep abreast of modern developments. He then introduced Mr. W. J. Tristram (a member of the Society's Council). Mr. Tristram, responding, stated that terms for pharmacists under the National Health Service were likely to be adequate. It was encouraging, he said, that agreements reached with previous Ministers had not been reversed by the present Government. He believed that the future for pharmacy would be bright. Mr. R. R. Roberts, proposing the Jubilee toast, described the esteem in which local pharmacists held Mr. Carter, and recalled youthful memories of pharmacy shared with Mr. Carter. The latter in reply thanked members for the honour they had bestowed on him. The chairman then presented a cheque to Mr. David Hughes (formerly Clerk to the Chester Insurance Committee) from members for his work on the Committee since its inception in 1911. "The Ladies" was proposed by Mr. K. A. Beard, Mrs. E. C. Davies responding, and "Knights of the Road" was proposed by Mr. A. F. Walton, Mr. E. C. Davies responding.

OVERSEAS NEWS

French Perfume Tax Lifted. — The French Minister of Finance suspended the luxury purchase tax from April 1 on a wide range of commodities, including perfumes.

German Exhibitors at Milan Fair. — German firms representing the chemical and optical industries have been permitted to exhibit at the Milan Fair, April 29 to May 16.

Pakistan Chemical Industries. — To encourage the development of chemical industries in Pakistan, its Government has established a "development wing" under the Director General of Supply and Development, Karachi.

New Eucalyptus Hybrid. — A Sydney report states that a variety of eucalyptus tree has been developed with a much greater oil yield. The Australian Government is being asked to impose an export embargo on the seed of this new hybrid.

Cautionary Labels in U.S. — The U.S. Federal Trade Commission has prohibited the use of the cautionary statement "use only as directed" in advertisements of foods, drugs, cosmetics and devices which are potentially dangerous. Where the use of such articles may lead to possible harm, a full disclosure of the facts is required.

Palestine Imports. — The total value of imports of chemicals, drugs, dyes and colours into Palestine during the nine months ended September 1947 amounted to £P.1,251,589, against £P.1,141,287 in the corresponding period of 1946. Palestine's exports of these products in the same periods were £P.4,345,879 and £P.977,940, respectively.

Russia Exports Isotopes. — Russia has agreed to deliver radioactive isotopes to Czechoslovakia for use in medical treatment and research, according to a paragraph in a Prague newspaper, which also announces that Czechoslovakia is building its first factory for the manufacture of penicillin at Roztoky, near Prague, using Canadian equipment delivered by U.N.R.R.A.

Australia to Export Penicillin. — Australia is planning the export of penicillin as a means of earning dollars. The Federal Minister for Health and Social Services stated recently that work to increase production had commenced at the Commonwealth serum laboratories, Melbourne, and that the Government would soon be able to supply all local require-

ments and those of the south-west Pacific region. Plans had also been approved for plants for the large-scale manufacture of streptomycin, previously produced on only a strictly limited scale.

Floating Dispensaries in Sarawak. — To enable the people of Sarawak, who live in scattered communities in trackless jungle, to enjoy hospital services, the Government there is constructing a fleet of floating dispensaries. Constructed in native-type boats suitable for river-work, and powered by outboard motors, the dispensaries will be manned by dressers recruited locally and trained in the issue of simple medicines and injections.

Clinical Thermometers for Peru. — Clinical thermometers for medical or veterinary use destined for Peru should be accompanied by a guarantee certificate issued by the manufacturer, whose establishment must be listed on the Peruvian Official Register of laboratories and foreign factories manufacturing products for therapeutic use. Application for particulars should be made to local Peruvian consuls.

Pharmacists on U.S. Health Body. — Mr. John W. Darganel (executive secretary, National Association of Retail Druggists) and Dr. Robert P. Fischelis (secretary, American Pharmaceutical Association), will represent the drug trade and pharmacy on the executive committee of the U.S. National Health Assembly. The Assembly, organised at the request of President Truman, is to meet in Washington in May.

Hungary to Export Alkaloids. — The Alkaloid Chemical Works, a Hungarian enterprise, is understood to be planning the production of 4,000 kilos of morphine during 1948, thus utilising its full available plant capacity. Over three-quarters of the output is intended to be sold in foreign markets. In addition, the manufacture of several other alkaloids including atropine, theobromine, papaverine and hyoscyne is to be taken up.

Russian-Swiss Commercial Treaty. — A commercial treaty between Switzerland and the Soviet Union, terms of which were announced by the Swiss Government recently provides for sending materials for Switzerland's chemical industry and various other products from the U.S.S.R. Switzerland will supply in return chemical products and a wide range of machinery and consumer goods. Payments between the two countries will be made in Swiss francs or in any other freely convertible currency.

TOPICAL REFLECTIONS

N.H.S. Regulations

The appearance in last week's issue (pp. 439-45) of lengthy excerpts from the National Health Service (General Medical and Pharmaceutical Services) Regulations, 1948, took my mind back to the passing of the first National Health Insurance Act in 1911. For a year or two after that event you allotted a generous amount of weekly space to quotations from and elucidations of Regulations, Rules and Orders made under the Act. We are likely to need your help again in the same way; for the wording of the new Regulations, though apparently according to pattern, may conceal a few snags. One feature strikes me on a first reading. As you point out (p. 437), panel chemists are required not only to supply drugs and appliances "with reasonable promptness," but also to keep in stock those listed in the Drug Tariff as essential. The keeping in stock of such goods as catheters, ice bags and elastic hosiery is always a potential cause of loss by deterioration. However good the chosen system of stock-keeping may be, avoidance of this kind of loss is not easy. It may, therefore, be presumed that for these appliances some discrimination in range of sizes obtainable on demand will be exercised. News about the basis and method of remuneration had not arrived when this paragraph was written. In every ordinary negotiation a point is reached at which the question of price arises. That point, I suppose, is near in the preparations now being made for the establishment of "General Pharmaceutical Services."

Health Centres

On p. 429 you have reported a parliamentary question and answer on the subject of buildings for the purposes of the National Health Service Act: the answer of the Minister of Health was to the effect that only the most urgent needs of the kind can be met at the moment. It now appears that an official circular has been issued to health authorities pointing out the necessity for further expert scrutiny of likely lines of experiment before proceeding far with the setting up of health centres. In its issue of April 2 "The Times" fulminated in its most impressive manner against the official attitude. The first leader of the "Lancet" (April 3, p. 523) was, by a curious coincidence, headed "Health Centres Now." It made similar

demands. But surely, at a time when every effort is being—or should be—made to avoid waste, the caution of the Ministry is amply justified. What would have been said if, simultaneously with the production of an "austerity" Budget, a series of costly types of health centre had been launched? From a letter which appeared in your columns a few weeks ago, it seems likely that in some cases existing dispensaries will be adapted, by way of "tryout," to the purposes of the new Act. Economy on these lines will no doubt be approved by any Chancellor of the Exchequer and, it may be added, by all good citizens. If a cry of "self-interest" is raised, pharmacists can meet it with equanimity: they are well aware of the place of health centres in the scheme and wish to see them developing on sound lines.

A Five-day Week

In linking as subjects for discussion a five-day week and the nationalisation of retail shops (p. 422), the West Ham Association of Pharmacists showed an appreciation of issues that may without warning become urgent. It was therefore wise to have these issues discussed before any urgency arose. There is no difficulty about arranging a five-day week for the staff of a pharmacy where the staff is large enough, either in a single shop or a group of shops, to absorb, so to speak, a rearrangement of duties. Indeed, systems providing a whole day free every week have been in operation for many years. Where a business is run single-handed, some other system must be devised. On the face of it, the proposal to have different early-closing days for adjoining areas seems workable: the requirements of the National Health Service Act will, however, have to be taken into account. Though without any knowledge of the discussion of the West Ham Association on the nationalisation of retail shops, I may perhaps record my agreement with the conclusion that the change "would result in a lessening of initiative and a lowering of the standard of service." Many of us are only too familiar with the absence or virtual absence of initiative in official circles: to see this inertia spreading throughout retail business would be a painful experience. It would connote the loss of a quality that counts for much, in public and in private business alike.

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COMPANY NEWS

GEDDES & JOHNSTONE (CHEMISTS), LTD. (P.C.).—Capital £3,000. Edwin A. Geddes, M.P.S., and George Johnstone, M.P.S., directors. R.O.: 6 Perry Vale, London, S.E.23.

GEDDES & WEIR (CHEMISTS), LTD. (P.C.).—Capital £4,500. Edwin A. Geddes, M.P.S., Andrew G. Weir and Lucy Weir, directors. R.O.: 140 Sydenham Road, London, S.E.26.

TRIARD PHARMACEUTICALS, LTD. (P.C.).—Capital £500. To carry on the business of chemists and druggists, etc. Joel Collins, M.P.S., and Betty M. P. Collins, directors. R.O.: 13 Heel Cattwg, Whitchurch, Glam.

PROGRESSIVE INVENTIONS, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers of chemicals and toilet preparations, etc. Arthur G. Trill and Olive M. E. Trill, directors. R.O.: 16 King Street, Market Rasen.

SCHOLES & LOMAX, LTD. (P.C.).—Capital £6,500. To acquire the business now carried on at 130 Church Street, Eccles, Lancs, and to carry on the business of chemists and druggists, etc. John Lomax, M.P.S., director.

JOHNSTON'S PHARMACY, LTD. (P.C.).—Registered in Belfast. Capital £2,000. To acquire the business of pharmaceutical chemists, etc., carried on by Mary F. Logan at Downpatrick. Mary F. Logan, director. R.O.: Irish Street, Downpatrick, co. Down.

DAVIES (THORNTON HEATH), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. John T. Roach, M.P.S., John P. Roach and Mrs. Esther M. Roach, directors. R.O.: Restronquet Creek, Mylor Bridge, nr. Falmouth.

DOMESTIC CHEMICAL CO., LTD. (P.C.).—Capital £2,000. To acquire the business of chemical manufacturers, etc., carried on at King Street, Exeter, as the "Domestic Chemical Co." Harold J. W. Lee, John A. Graham and William J. C. Graham, directors.

APOLLO SURGICAL SUPPLIES, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of surgical towels, dressings and equipment, etc. Wilfred L. Goodfellow and Donald Ormerod, directors. R.O.: 51 Fountain Street, Manchester.

HAIRCRAFT PRODUCTS, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, manufacturers of and dealers in perfumes, face powders and creams, cosmetics, etc. Leonard I. Brett, director. R.O.: 55 Wool Exchange, Coleman Street, London, E.C.2.

J. FLORIS, LTD. (P.C.).—Capital £25,000. To acquire the business of a manufacturing chemist and perfumer formerly carried on by Kenneth D. Marsh at 89 Jermyn Street, London, S.W.1. Kenneth D. Marsh, Harold F. Burgess, Peter J. Bodenham and Michael C. Bodenham, directors.

BATES BROTHERS (HERTFORD), LTD. (P.C.).—Capital £5,000. To carry on the business of retailers, including chemists, etc. Sir Theodore G. Chambers, K.B.E., Richard L. Reiss, Leonard T. M. Gray, Major General John Buckley, C.B.E.,

Archibald K. Graham, John F. Eccles, O.B.E., and Charles E. Lumb, directors. R.O.: Estate Offices, Wigmore North, Welwyn Garden City.

MONSANTO CHEMICALS, LTD.—Net profit for the year ended December 31, 1947, after provision for taxation, etc., amounted to £294,644, against £237,878. A final ordinary dividend is recommended of 30 per cent., less tax, making 45 per cent. less tax for the year, compared with 40 per cent., tax free, in 1946, on the smaller capital. The directors are to comply with the F.B.I. proposals for a dividend ceiling.

BUSINESS CHANGES

PARKE, DAVIS & Co., have transferred their purchasing department to Staines Road, Hounslow, Middlesex.

M. J. FECHER, LTD., 121 High Street, Slough, Bucks, announce that their offices and works are now closed on Saturdays.

DUNCAN, HARRIS & Co., LTD., have opened a pharmacy at 250 Kensington High Street, London, W.1.

SOUTHAMPTON CO-OPERATIVE CHEMISTS, LTD., have opened a new pharmacy branch at 23 Rumbridge Street, Totton, Hants.

EAST DURHAM CO-OPERATIVE CHEMISTS, LTD., are shortly to open a pharmacy at 29 Ryhope Street South, Ryhope, co. Durham.

LAPORTE CHEMICALS, LTD., is the title recently adopted by B. Laporte, Ltd., chemical manufacturers, Luton, Beds.

FRANCIS F. FOX & Co., LTD., Bristol, 2, have appointed Mr. W. D. H. Deverell as an additional representative for the Bristol area.

L. J. WARREN & Co., LTD., wholesale and export distributors, have removed to 119 High Street, Whitechapel, London, E.1 (Telephone: Bishops-gate 9720 and 9729).

DYSART CO-OPERATIVE SOCIETY, LTD., have acquired the pharmacy at 142 St. Clair Street, Kirkcaldy, formerly carried on by Mr. T. Elliot, M.P.S., under the title A. H. Forrester.

THE BRITISH EXPORT TRADE RESEARCH ORGANISATION (BETRO), 48 Dover Street, London, W.1, has retained Mr. M. A. Phillips, D.Sc., F.R.I.C., A.M.I.Chem.E., as technical adviser to members engaged in the chemical export trade.

MR. H. L. LAWRENCE has resigned his position as London representative of P. B. Cow & Co., Ltd., to become a director and sales manager of John Alder & Co., Ltd., merchants, Goswell Road, London, E.C.1.

DOMINICK A. DOLAN & Co., 58 Bolton Street, Dublin, have been appointed the sole agents in Eire for the medical products, bulk and industrial chemicals of Ward, Blenkinsop & Co., Ltd., London, W.1.

MR. V. PETROW, Ph.D., D.Sc., F.R.I.C. (lecturer in chemistry, Queen Mary College, London University), has been appointed chief research chemist to The British Drug Houses, Ltd., London, in succession to Dr. W. Bradley, who has accepted the chair of colour chemistry and dyeing, Leeds University.

MARRIAGES

CORBETT—BRUTON. — At Rathwire, co. Westmeath, Eire, recently, John Justin Corbett, M.P.S.I., son of the late Mr. John Corbett, M.P.S.I., Mitchelstown, co. Cork, to Aileen Ann Bruton, Killucan, co. Westmeath.

MACLEAN-NEIL.—At Glasgow, on March 25, Alastair MacLean, M.B., Ch.B. (only son of Mr. Alexander MacLean, M.P.S., Duart, Sorbie Road, Ardrissan) to Doris Isabel Thomson Neil, M.A., Kilmarnock.

MAGEE—WICKHAM. — In Dublin, recently, Patric Magee, M.P.S.I., Killybegs, co. Donegal, to Sheila M. Wickham, L.P.S.I., Knappagh Road, Sligo.

DEATHS

CARTER.—At Sprotborough, Doncaster, Yorks, on March 24, Mr. William Henry Carter, 9 High Street, Congleton, Cheshire, formerly of Swinton, Mexborough, aged seventy-seven. Mr. Carter qualified as a chemist and druggist in 1893 and passed the Pharmaceutical Chemist examination in 1895.

EDWARDS.—At a nursing home in Manchester, on March 29, Mr. Albert Arthur Edwards, 29 Parkfield Street, Rusholme, Manchester, aged forty-three. Mr. Edwards had been, since the beginning of 1947, the representative in North Wales, Cheshire and Shropshire of The British Drug Houses, Ltd., London, with whom he had been employed for twenty years—for part of the time as representative in the Manchester area.

• GLENDINNING.—At Malin Head, co. Donegal, Eire, suddenly, on March 30, while there on holiday, Mr. James Glendinning, M.C.P.S.N.I., Waterloo Place, Londonderry (a past-president of the Pharmaceutical Society of Northern Ireland), aged seventy-five. A Londonderry man, Mr. Glendinning served his apprenticeship locally with H. M. Prior & Co. and Mr.

R. A. Austin. He then went to Kingstown as assistant with T. W. Robin-



son (now Hayes, Conyngham & Robinson, Ltd.) and later had appointments in the businesses of John Evans and Butler's, Dublin. Qualifying in 1896 under the Pharmaceutical Society of Ireland, he opened his pharmacy at Londonderry in the same year and became one of the best known men in the North-west of Ireland. He was manufacturer of a branded marking ink which is widely used by shirt and collar makers in Londonderry, Belfast, the West of England and throughout the Empire. Mr. Glendinning was elected to the Council of the Pharmaceutical Society of Northern Ireland in 1935, and was its president in 1941 and 1942. He was re-elected to the Council in 1947 and was present at the March 1948 meeting. Through his efforts, a visit of the Council of the Society to Londonderry was made an annual institution. He is survived by his daughter (Mrs. S. Connolly), who graduated M.Sc. with first class honours in chemistry and botany at Queen's University, Belfast, and by a brother (Mr. J. C. Glendinning)—a former member of the Northern Ireland Senate—and sister (Mrs. McCurdy, Penarth). At the funeral on April 1 the Society was represented by Messrs. W. H. Boyd, John McGregor (president), H. F. Moore (a past-president and close personal friend), and P. R. W. Shinner (treasurer), and the Ulster Chemists' Association by Mr. Joseph Wellwood; many local members of the profession were also present.

EVANS.—On March 12, Mr. David Evans, M.P.S., 136 Chepstow Road, Newport, Mon, aged seventy-six. Mr. Evans qualified in 1900.

HALD.—In a collision between a British passenger aircraft and a Russian fighter craft over Berlin on April 5, Mr. Waldemar Hald (a director of Schering Pty., Ltd., Penhurst, Sydney, New South Wales), aged about sixty. Mr. Hald is survived by seven sons and daughters, one of the sons engaged in the business. He visited the offices of the C. & D., last week and was expecting to return to his hotel in London after his visit to Germany.

SHAW.—On March 25, Mr. Alfred E. Shaw (a director of Lax & Shaw, Ltd., since its incorporation in 1913). The interment took place on March 29.

THOMPSON.—At his home, Glaisdale, Cambridge Road, Ely, on April 2, Mr. Sidney Cooke Thompson, Ph.C., aged seventy-five.

PERSONALITIES

MR. A. CHAPMAN (a director of Ayrton, Saunders & Co., Ltd., Liverpool) has been elected president of the Birkenhead and Wirral Branch, Commercial Travellers' Association.

DR. C. A. MORRELL (Dominion of Canada Chief Analyst and Director of the Food and Drugs Division of the Canadian Health Department) has left Canada for a six weeks' visit to Britain and Europe.

ALDERMAN JOSEPH F. COSTELLO, M.P.S.I. (mayor of Galway), has been re-elected a director of the Eire Southern Railway Company (C.I.E.), as a western representative. Alderman Costello is a former president of the Pharmaceutical Society of Ireland.

MR. JOHN WALTON, M.P.S., The Broadway Pharmacy, Broadstairs, Kent, is celebrating his jubilee as a pharmacist on April 15. He first started business on his own account in South Margate, in 1899, but removed after five years to his present pharmacy.

MR. A. BERNARD SLACK, who recently completed sixty years in the drug trade, and as a reader of the *C. & D.*, entered the trade as junior assistant to a brother-in-law at the age of twenty. He had varied experience with Boots, Ltd.; as manager of a private pharmacy, and as proprietor of his own business before setting up, as the "Chemist's Business Builder," in which capacity his services, advertised regularly in these columns, were in increasing demand until the coming of National Health Insurance brought about a change of conditions that reduced his *clientèle*. After a term as organiser of hospital collections he returned to retail pharmacy until his retirement recently.

DR. D. G. GARRATT, B.Sc., Ph.D., F.R.I.C. (public analyst for the borough of Camberwell, London), who addressed a combined meeting of the National Association of Women Pharmacists and South-east London Chemists' Association recently, previously served as an analyst with several manufacturing chemists. In addition he spent seven years with the London County Council, during which time he organised the Council's drug department. Dr. Garratt has also a private practice as an analytical and consulting chemist. He is a member of several B.P. and B.P.C. revision committees and conducts a food and drug class at Chelsea Polytechnic. He is the official analyst to the Port of London Authority.

INQUESTS

"Uncontrollable" Deep Sedation.—At an inquest recently on a patient at St. John's Hospital, Chelmsford, a resident medical officer said that he had commenced deep sedation treatment, consisting of paraldehyde, dr. 2, and Dial, gr. 3, three times daily, following a psychiatrist's report that the patient was feeble-minded, with symptoms of hysteria. The girl, a former housemaid at the hospital, became deeply unconscious and later died. An analyst who conducted the post-mortem examination considered that the amount of paraldehyde present in the body could have proved fatal. A doctor thought that the body might not have excreted the Dial sufficiently rapidly. The coroner, recording a verdict of death by misadventure, described the treatment as "quite uncontrollable."

Death Follows Injection.—A verdict of death due to asphyxia caused by accidental collapse of the lungs through over-sensitiveness to a drug injected for the treatment of varicose veins was returned at Ripponden, Yorks, recently, on a woman for whom Mr. Sidney Richard Binns, M.P.S., Sowerby Bridge, stated that he had dispensed a prescription for a preparation of sodium morrhuate. The product, supplied to him by The British Drug Houses, Ltd., London, had been in stock for nearly two years. The woman's doctor said that he injected 1 c.c. of 5 per cent. sodium morrhuate solution: the patient complained of tingling in the leg and faintness, and died ten minutes later. An analyst declared that the specimens of the drug that he had examined were chemically and bacteriologically sound; a cloudiness he attributed to precipitation of some of the soap content. Mr. H. J. Rolph (a director of the manufacturing company), was asked by the coroner to give his opinion on cloudy solutions of sodium morrhuate; he said that, if a solution did not clear on warming, it should be looked on as suspect, though not necessarily rejected. The pharmacist (Mr. Binns) stated that, according to recognised authorities, sodium morrhuate solution could be either clear or cloudy, and a pathologist stated that some people were more liable to be unfavourably affected by sodium morrhuate than others. He knew of no test to determine whether a patient was over-sensitive. The coroner, in giving his verdict, said there was nothing to indicate that the drug was at fault, but it might be a wise precaution to advise rejection of ampoules that did not clear when warmed.

MONOPOLY (INQUIRY AND CONTROL) BILL

THE purpose of this Bill is to provide for investigation of monopolies and restrictive arrangements in industry and trade, and to give the Government special powers for dealing with those which are found to work against the public interest. An independent Commission, to be called the Monopoly Commission and with a staff to be provided by the Board of Trade, will be set up to investigate and report on particular industries referred to them by the Board of Trade (Clause 1). Cases may be referred where it appears to the Board of Trade that certain conditions prevail, in the United Kingdom or a substantial part of it, in connection with the supply, processing or export of particular goods (Clause 2 (1)). The Board may not refer arrangements which have been expressly authorised by law (other than patent and trade mark law) but the Commission has the duty of assisting the Board, if asked to do so, in any question connected with the subject matter of the Bill whether authorised by law or not (Clause 2 (2)).

The conditions to which the Act applies are described in Clauses 3, 4 and 5. These conditions are held to be present if a third or more of the goods in question is supplied, bought or processed either by one person or by two or more persons who have a tacit or expressed arrangement to limit competition in any way in the particular trade (Clauses 3 and 4). (Agreements dealing with wages and employment are exempted in the provisos to Clauses 3 (1) and 4 (1)). Exports are similarly treated and are divided into exports for all markets and exports to particular markets (Clause 5).

Two Functions of Commission

References may be of two kinds. The Commission may be asked merely to investigate the facts—that is whether the conditions described in Clauses 3, 4 or 5 do in fact prevail—and to confine its report to a factual survey. Alternatively it may be asked, in addition to investigating and reporting the facts, to say whether in its opinion the situation reported is against the public interest. In a reference of the second type, the Commission may be required to confine its inquiry to particular aspects of the question and to report on these alone. The Commission is required to report unequivocally and may suggest remedies (Clause 7). References to the Commission must be published and may be

varied at any time by the Board of Trade (Clause 6). Where the Commission has been required to report on the effect on the public interest, its report must (subject to a security safeguard) be published. In other cases publication is optional.

Powers to Make Orders

Clause 10 gives various Ministers powers to make orders, subject to affirmative resolutions in both Houses of Parliament. The powers may be used only where the Commission has been required to report whether the conditions investigated work against the public interest, and where either (a) the Commission has reported that they do so operate or (b) the House of Commons has passed a resolution to that effect (Clause 10 (1)). The sanctions in Clause 10 (2) include power to prohibit the making or carrying out of agreements, and power to prohibit boycotts, conditional sales and preferential terms. They may be applied to any person carrying on business in the United Kingdom in connection with his actions either inside or outside the United Kingdom (Clause 10 (4)). The Bill does not prejudice in any way the Government's right to use its existing price control and other powers (Clause 13).

No criminal proceedings can be brought for breach of an Order made under the Act (Clause 11 (1)), but civil proceedings can be brought either by the Crown, or by any person affected for an injunction or any other appropriate relief (Clause 11 (2)). The application of Section 4 of the Trade Disputes Act, 1906 (which prohibits actions of tort against trade unions) is expressly excluded by Clause 11 (4).

Under Clause 12 the Board of Trade may ask the Commission to investigate remedial action taken by the people concerned as a result of a report and recommendations. Clause 14 restricts disclosure of information to disclosure for purposes connected with the Act and Clause 15 lays down penalties for failure to give evidence or to produce documents. Clause 18 deals with the application of the Act to Northern Ireland, the Channel Islands and the Isle of Man.

Doctors' Handwriting.—"If all these bizarre orthographies, barbed-wire, earwig-footprint, or unadulterated doodle will one day embody prescriptions for things like curare, I'm off."—A medical examiner in the "Lancet."

TRADE NOTES

Price List.—A new price list of pills and tablets is available from Richard Daniel & Son, Ltd., manufacturing chemists, Derby.

Fluorescent Lighting.—A new illustrated thirty-page quarto price list of Sieray fluorescent lamps and equipment has been issued as catalogue No. 987 by Siemens Electric Lamps and Supplies, Ltd., 38 Upper Thames Street, London, E.C.4.

Tablet-making to the Trade.—G. O. Woodward & Co., Ltd., 146 Larkhall Lane, Clapham, London, S.W.4, invite home and export inquiries from firms interested in the manufacture of compressed medicinal tablets.

Sole Distributors.—Splendor, Ltd., have been appointed sole distributors for Laurel safety razors (standard to take three-hole and slotted blades, and ladies' boudoir miniature) and all types of Laurel safety-razor blades.

Bonus Offer.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, point out that Flybay insect repellent contains over 40 per cent. dimethyl phthalate. A bonus of thirteen to the doz. on minimum orders of three doz. is offered.

Again Available.—Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, announce that calcium-Sandoz chocolate-flavoured tablets, each containing gr. 12½ calcium gluconate in chocolate-flavoured base, are again available in boxes of sixty tablets. Prices are given on another page.

Change of Name and Policy.—Knights (Manufacturing Chemists), Ltd., has been adopted as new title by Knight's Oil & Chemical Co., Ltd., Church Road, Perry Barr, Birmingham, 22b, who announce that in future they are concentrating on the manufacture of galenicals and packed specialities.

Overseas Distribution Arrangement.—F. W. Hampshire & Co., Ltd., Sunnysdale, Derby, announce that they have made arrangements for certain of their products to be handled in most markets outside the United Kingdom by the overseas organisation of Reckitt & Colman, Ltd. It is proposed to form a joint company for the purpose.

An Advertiser's Announcement.—Carnegie Chemicals (Welwyn), Ltd., and their associated company, Carnegie Quinine Works, Ltd., Welwyn Garden City, Herts, point out that their only announcement in last week's issue of THE CHEMIST AND

DRUGGIST was on p. 20. It was headed "Carnegie's of Welwyn Garden City," a slogan under which they have advertised for some years.

Improvements in a Lipstick.

J. & R. Atkinson, Ltd., New Bond Street, London, W.1, have enhanced the quality and increased the ease of applying their lipstick, which is being issued in three shades: Cardinal red, cherry red and clover red. It is intended that further shades will be added when the manufacturers are satisfied that the new colours are fully in accord with their standards.



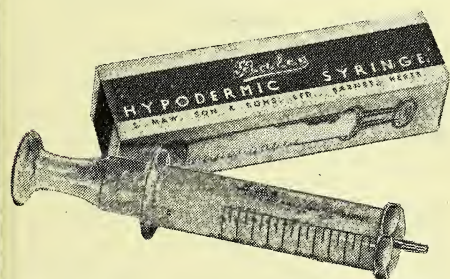
Advertising Campaigns.—BURROUGHS WELLCOME & Co., 183 Euston Road, London, N.W.1, give details in this issue of advertisements for Sketofax insect repellent that are to appear during 1948 in women's magazines. — CALFOS, LTD., Imperial House, Kingsway, London, W.C.2, reproduce on another page an advertisement which forms part of a series now appearing in daily papers and women's journals for Calfos palatable calcium and phosphorus tablets.

Microfilm "Reader."—A new microfilm "reader" developed to meet the requirements of the International Federation of Documentation was displayed for the first time to home and overseas buyers at the Engineering & Industrial Equipment (Home & Export) Exhibition at the Royal Horticultural Hall, London, S.W.1, March 10-24. The "reader" is a self-contained viewing apparatus for examining microfilm negatives or positives in rolls up to 100 ft. in length and in both 35 and 16 mm. sizes.

Export Effort.—Glaxo Laboratories, Ltd., Greenford and Barnard Castle, state that they decided against a general closing of their penicillin plant at Barnard Castle, co. Durham, during the Easter holiday. They point out that, if the fermentation units had closed for the holiday period, millions of doses of penicillin would have been lost, owing to interruption of the cycle of operations. As a result of their remaining open, penicillin to a value of thousands of pounds will be available for export.

Purchase Tax Exemptions.—The following have notified us that preparations or specialities of which they are the manufacturers are exempted from purchase tax under the Purchase Tax (No. 1) Order, 1948 (S.I., 1948, No. 608) (see *C. & D.*, April 3, p. 430):—**BAYER PRODUCTS, LTD.**, Africa House, Kingsway, London, W.C.2 (forty-eight items); **BRITISH SCHERING, LTD.**, 167 Great Portland Street, London, W.1. (three items); **CIBA LABORATORIES, LTD.**, Horsham, Sussex (fifteen items); the **CROOKES LABORATORIES, LTD.**, London, N.W.10 (six items); **GENATOSAN, LTD.**, Loughborough, Leics (thirty-six items); and **ROCHE PRODUCTS, LTD.** (fifteen items).

Precision Syringe.—The Balco hypodermic syringe illustrated, one of a series distributed under that name by S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, fulfils all requirements for hypodermic syringes laid down in the Medical Research Council's memorandum on "The Sterilisation, Use and Care of Syringes." The glass barrel and plunger are individually ground to ensure perfect fit, and the



metal nozzle is secured with a metallic alloy of high melting-point and a coefficient of expansion approaching that of the glass. The syringe may be sterilised assembled, in either autoclave or hot-air oven. Details and terms are given in a descriptive folder.

Brush Trade Directory.—A "Directory of the Brush and Allied Trades," described as the only one of its kind in the world, has been published by Wheatland Journals, Ltd., 356 Kilburn High Road, London, N.W.6. The work comprises 272 octavo pages, and lists trade organisations; suppliers of brushes, combs, etc., and of raw materials, in Great Britain, Northern Ireland, the Empire and foreign countries; trade marks and trade terms. The price is 12s. 6d. to subscribers to the monthly publication "Brushes and Toilet Goods," 17s. 6d. to non-subscribers.

Shampoo "Launched."—At a luncheon in London recently, Gloria liquid shampoo was officially "launched" by Mr. Mark Vardy (chairman of A. & F. Pears, Ltd., the manufacturers). Mr. Vardy said that one of Messrs. Pears' associated companies had been marketing for more than thirteen years a liquid shampoo for use in hair-dressing salons, and today more of this particular shampoo was used by hair-dressers than any other. The company had long been conscious that there were problems to be overcome in producing a liquid shampoo for general use. Soapless shampoos were sometimes drastic; some left the hair harsh, unmanageable and over-dry. The company had worked to overcome these drawbacks, and had produced in Gloria a liquid shampoo that was foolproof and gave excellent results in any strength, on any type of hair, under any conditions. Also shown at the luncheon was Messrs. Pears' new tonic hair-dressing, Nutriline, which is claimed, by a few minutes' daily massage, to overcome dandruff.



Sterilisation of Atmosphere.—The second edition of "Aerosols in Theory and Practice" and a new booklet "The Phantomyser Clears the Air," have been issued by Aerosols, Ltd., 65 Old Brompton Road, London, S.W.7. The first, comprising sixty pages, deals with the nature and properties of an aerosol, the production of aerosols and their applications; a section of twenty-eight pages discusses the effectiveness of aerosols in destruction of air-borne bacteria; other sections deal with aerosols in inhalation therapy and in the destruction of insects. The second booklet describes and illustrates apparatus issued by the company for the dissemination of aerosols in air sterilisation and pest destruction.

Proprietary Articles Trade Association

Alterations to Protected List (Part 2).—*Benger's, Ltd.*, March 19, Benger's food, 8-oz., 19s. 4d. doz., 2s.; 16-oz., 34s. doz., 3s. 6d.; 2-lb. 6os. doz., 6s. 2d. All exempt from tax.

VETERINARY SURGEONS BILL

THE main purpose of a Veterinary Surgeons Bill which received its first reading in the House of Lords on March 24 is to give effect, with certain modifications, to recommendations made in (a) the second report of the Loveday Committee on Veterinary Education (Cmd. 6517) and (b) the report of the Chancellor Committee on Veterinary Practice by Unregistered Persons (Cmd. 6611). At present, the avenue for admission to the veterinary profession is through examinations held by the Royal College of Veterinary Surgeons. The Loveday Committee considered that the best possible training for veterinary surgeons could be secured only by persuading the universities to undertake responsibility for training. The Bill accordingly proposes that full university status should be given to veterinary studies by empowering the Privy Council, after consultation with the Royal College of Veterinary Surgeons, to direct that a veterinary degree conferred by a specified university shall entitle the holder to membership of the Royal College and to registration as a veterinary surgeon. The Bill places upon the Council of the Royal College the responsibility for maintaining a high standard of training and examination of candidates for admission to membership of the Royal College; and for this purpose empowers the Council to appoint persons to visit the universities and veterinary colleges and to report upon the courses of study, staffing, accommodation and equipment available for training in veterinary surgery, and to appoint persons to attend and to report on examinations. At present the Council of the Royal College consists entirely of persons elected by members. The Bill provides for reconstitution of the Council to include persons appointed by the Privy Council and by universities.

Unregistered Persons Limited

The Bill further proposes to prohibit the practice of veterinary surgery by unregistered persons, but excepts certain treatment and operations, such as the treatment of an animal by its owner and first aid in an emergency.

The Restriction of Practice of Veterinary Surgery (Clause 5) by Unqualified Persons is in the following terms:—

(1) Subject to the provisions of section seven of this Act, no person shall practise, or hold himself out as practising or as being prepared to practise, veterinary surgery unless he is—

(a) registered in the Register of Veterinary Surgeons, or

(b) registered in the Supplementary Veterinary Register kept in accordance with the next following section.

(2) The expression "veterinary surgery" in the last foregoing subsection shall not include—

(a) the doing of anything specified in the First Schedule to this Act;

(b) any minor treatment, test or minor operation specified by order of the Ministers [the Minister of Agriculture and Fisheries, the Secretary of State, and the Minister of Agriculture for Northern Ireland] under this paragraph made after consultation with the Council of the Royal College of Veterinary Surgeons, so long as any conditions specified in the order are complied with.

(3) Any order of the Ministers made under paragraph (b) of the last foregoing subsection may be varied or revoked by a subsequent order of the Ministers made after the like consultation.

(4) Any person who contravenes the provisions of this section shall be guilty of an offence and liable to a fine not exceeding one hundred pounds.

Supplementary Register

The conditions for registration in the Supplementary Veterinary Register are that the applicant has attained the age of twenty-eight and satisfies the Council of the Royal College of Veterinary Surgeons—

(a) that he is of good personal character;

(b) that during the ten years immediately preceding the application he has for a period of not less than seven years in the aggregate been engaged in the United Kingdom as his principal means of livelihood in diagnosing diseases of animals and giving medical or surgical treatment to animals.

No person who is not for the time being registered in the Register of Veterinary Surgeons may use the title of veterinary surgeon or any name, title, addition, or description calculated to lead to the belief that he is so registered, and no person who is not for the time being registered in the Register of Veterinary Surgeons or in the Supplementary Veterinary Register may use the title of veterinary practitioner or any name, title, addition, or description calculated to lead to the belief that he is a practitioner of, or qualified to practise, veterinary surgery to any greater extent than is authorised under any subsection of the Act.

Persons placed on the Supplementary Veterinary Register may continue in practice and may style themselves veterinary

practitioners. Provision is also made for granting licences in certain circumstances to persons employed by animal welfare societies, enabling them to give such medical or other treatment and to perform, for the relief of pain, such minor operations as may be authorised by the licence.

The treatment and operations that may be given or carried out by unqualified persons are:—

Any treatment given to an animal by the owner thereof, by another member of a household of which the owner is a member, or by a person in the employment of the owner or of any other member of such a household.

Anything done, otherwise than for reward, by a person engaged or employed in agriculture, as defined in the Agriculture Act, 1947, to an animal owned (whether by himself or another person) for the purposes of agriculture, as so defined.

The rendering in an emergency of first aid for the purpose of saving life or relieving pain.

The destruction of any animal by painless methods [and specified castrations, tailings, etc.].

A Second Schedule to the Bill provides for the extension to veterinary practitioners of rights given to veterinary surgeons under the Pharmacy and Poisons Act, 1933, the Penicillin Act, and certain other Acts of Parliament.

Other provisions deal with the disciplinary powers of the Royal College; exemption of veterinary surgeons and veterinary practitioners from jury service; payment by veterinary surgeons and veterinary practitioners of annual fees in respect of the retention of their names on the Registers, and the removal of names from the Registers if the fee is not paid. Apart from the provisions relating to the licensing of employees of animal welfare societies and to jury service, which are restricted to Great Britain, the Bill extends to the United Kingdom. Copies, price 6d. each, may be obtained from H.M. Stationery Office.

NEW BOOKS

Diagnostic Tests.—T. D. Whittet, Ph.C., D.B.A. 7½ in. x 4½ in. 2s. 6d. Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. An outline of a number of well-established and new diagnostic tests, the material being based on three articles published by the author during 1947. The information is directed to students for the Diploma in Biochemical Analysis, practising pharmacists and others.

Bailey's Chemists' Pocket Book.—Edited by F. G. Angell, B.Sc., Ph.D. 6½ in. x 4½ in. Pp. 508. 30s. E. & F. N. Spon, Ltd., 57 Haymarket, London, S.W.1. Since publication of the previous (ninth) edition, the long list of compounds has been divided into two (organic and inorganic), and a column of refractive indices has been added in the organic section, and all density tables are collected together. Otherwise there is little change in general layout.

Marketing Drugs and Cosmetics.—Louis Bader, Ph.D., and Sidney Picker, M.C.S. 9½ in. x 6½ in. Pp. 342. 28s. D. Van Nostrand Co., Inc., New York; in Britain, Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2. The joint authors are a professor of marketing at New York University and a president of several large U.S. commercial concerns. The book claims to solve completely the "merchandising problems of manufacturers, wholesalers and retailers." Directed primarily to American readers, it incorporates

new ideas in advertising, packaging and display that should be valuable to traders in Britain. The special problems of the export market are discussed, and a plea is made for more marketing research, which apparently is still regarded in America, as in Britain, with "superstitious awe." A brief summary of the subject matter is given in question form towards the end of the book, and there is a useful index.

Basic Facts of Health Education.—8½ in. x 5½ in. Ministry of Health and other bodies. Pp. 193. 7s. 6d. Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. Fifty-two articles chosen from the Ministry of Health's quarterly series of bulletins to pharmacists (abstracts of which have been published in THE CHEMIST AND DRUGGIST since the series commenced in 1944) have been brought together in one volume. Originally intended to give pharmacists first-hand knowledge of problems engaging the Ministry's attention or of general public health importance, the Bulletin has sometimes included subjects that fall rather outside the pharmaceutical province. The book has, therefore, perhaps, a general rather than a strictly pharmaceutical appeal. It should find a useful place, however, on the pharmacist's bookshelf if only as a reminder of such "basic facts" as the dangers that sometimes attend the unsupervised taking of medicaments like cough mixtures and laxatives.

MINISTRY OF HEALTH BULLETIN

THE following abstracts have been taken from the eighteenth Bulletin to Pharmacists issued by the Ministry of Health.

Secundum Artem

By H. Davis, B.Sc., Ph.D., Ph.C., F.R.I.C.
(Chief Pharmacist, Ministry of Health)

IN no branch of pharmacy during recent years has more progress been made than in the preparation of parenteral solutions. Buffered gels provide a further subject which will appeal to the modern pharmacist who is well versed in the details of hydrogen-ion concentration. After surgical operations involving the alimentary tract, healing may be prevented by the leakage of fluids containing proteolytic enzymes. The fluids cause excoriation round the wound by their digestive action on the proteins of the skin. Ordinary ointments or lotions are useless. By identifying the proteases responsible for this digestive effect and knowing the limits of pH between which the enzymes act, Selous and Perryman have formulated gels buffered to pH outside these limits, and which would therefore destroy the enzyme action or reduce it to a minimum. Against the "pepsin" from the stomach they suggested the use of a gel buffered to pH 8.0, which, when applied to the skin, inhibited the enzyme action. The "trypsin" complex from the pancreas acting at an optimum pH of 7.8 is inhibited at pH 5.0.

The following is the formula for a buffered gel of pH 5.0 which may be autoclaved repeatedly: Congo red solution, 1 per cent. in a solution buffered at pH 5.0, consisting of potassium hydrogen phthalate 10.207 gm. N/1 sodium hydroxide 23.9 mls. water to 1,000 mls, is first prepared; one volume of this is mixed with an equal volume of 10 per cent. polyvinyl alcohol solution and warmed to 50° to 60° C. A clear red gel forms on cooling. This is sterilised by autoclaving at 115°-116° C. A buffered gel, pH 8.5, is prepared by dissolving 15 gm. of polyvinyl alcohol in 300 mls of buffer solution pH 8.0 (potassium dihydrogen phosphate 6.808 gm. + 12 mls of 2N.NaOH adjusted to 1 litre with water) by warming to 60° to 70° C. An amount of 5 gm. borax is dissolved in 200 mls of the buffer solution, which is then added to the polyvinyl alcohol solution. The mixture gels almost immediately.

Other typical modern pharmaceutical problems include the dispensing of tetræthylammonium bromide (T.E.A.B.).

This substance, when injected, blocks the transmission of nerve impulses through the autonomic ganglia. It also produces a marked fall in blood pressure and the peripheral skin temperature increases. Clinically, it has been employed in the study of diseases such as essential and malignant hypertension. A 10 per cent. aqueous solution is injected intravenously in doses of 0.2 to 0.5 gm. (2 to 5 mls of solution) or intramuscularly in doses of 20 mgm. per kilo of body weight. This quaternary ammonium compound is comparatively stable in solution, but, to avoid possible decomposition by autoclaving, solutions have been made with aseptic precautions, sealed in sterile ampoules, and a modified heating process of 30 minutes at 98° C. employed.

Di-isopropyl fluorophosphate (D.F.P.), another compound of recent pharmaceutical significance, was investigated during the 1939-45 war as a potential agent for chemical warfare. It is extremely dangerous to handle and the preparation of the parenteral solution requires great care. The drug is administered as a 0.1 per cent. solution in sterile arachis oil. For preparing the injection the oil was sterilised in the official manner by heating for one hour at 150° C., mixed with the D.F.P., transferred to sterile ampoules in 1-ml (= 1 mgm. D.F.P.) quantities, which were then sealed and subjected to a final heating at 115° C. Some doubt was expressed whether the D.F.P. was stable when heated at 150° C. for one hour. D.F.P. inhibits cholinesterase and has therefore been tried clinically in doses of 1 to 10 mgm. for the treatment of myasthenia gravis. The results for this purpose are to date not very promising. It has also been used in doses of 1 to 1.5 mgm. in the treatment of post-operative paralytic ileus, i.e., when the patient fails to pass fæces or flatus within sixty hours of the abdominal operation. Eye-drops containing 0.2 per cent. of D.F.P. in arachis oil have been employed in the treatment of glaucoma. This drug is still in the experimental stage.

Hygienic Precautions Against Common Flies

By R. Mansell, O.B.E., M.A., M.B., B.Ch.,
D.P.H., D.T.M. & H., Col. R.A.M.C.
(retd.)

THOUGH we are here concerned with the common house-fly (*Musca domestica*), the lesser house-fly (*Fannia canicularis*) and its cousin the latrine fly (*Fannia scalaris*),

which all have similar breeding and feeding habits, there are many other flies which are common and whose habits annoy man and contaminate his food. "Blue-bottles" and "green-bottles," for instance, lay their rapidly-hatching eggs on raw meat, and occasionally in open wounds. In a couple of days or so active and powerfully feeding small maggots hatch from these eggs and rapidly consume the flesh on which they find themselves. As scavengers in natural outdoor conditions they have a distinct value, but in the larder the meat they contaminate is not easily acceptable. There are also large hairy, grey flies whose backs are patterned in black and white, the *Sarcophagidæ*, most species of which contaminate meat similarly.

The lesser house- and latrine-flies lay pearly-white, rice-grain shaped eggs in any vegetable refuse, but preferably, where there is no water-borne sewage system, in collections of human faeces. From these eggs small maggots (larvæ) hatch out and feed on the material where they are born. When they are fully fed the larvæ migrate outwards from the refuse in which they have grown to the surrounding earth, into which they may penetrate, if it is soft or sandy, as far as a couple of feet either laterally or vertically. There their skin hardens and they become chrysalises (pupæ). In this immobile state the larvæ inside the hardened chrysalis case develops, stage by stage, into the form of the flying insect. When this development is completed the adult insect breaks its way out of the case and burrows rapidly to the surface of the soil, rests there a short while to recover from its exertions, and sets off to feed and do what it can to continue its species.

Methods have recently been enormously improved of control of flies by the introduction of the "contact" insecticides which destroy insects, and which may be deposited on surfaces where they are likely to land or rest, so that a single application can relieve the operator of the necessity for further action for considerable periods. DDT or Gam-mexane (666) solutions of 5 per cent. strength, or over, will leave a sufficient film of active material when sprayed on a surface to be lethal to flies for two or perhaps three weeks. Solutions of lower strength—e.g., 1 per cent.—will probably achieve this effect if the spraying is repeated frequently so that an effective concentration is eventually built up. It is undoubtedly more effective and more eco-

nomical to use a 5 per cent. solution once a fortnight than a 1 per cent. solution once a day. It is worth while remembering that many of the "knock-down" insect sprays do not actually kill, they merely stupefy the insects, whose bodies should then at once be swept up and burned. The addition of an adequate small percentage of a "contact" insecticide to such sprays will ensure early death after the stupefying effect has passed off.

Pharmacists and the T.S.A.

By Dr. W. P. Kennedy, F.R.S.E.

CURRENT interest in this Act has made it worth while to set down for the interest of pharmacists a few notes on some aspects of its operation.

With the general release of penicillin through commercial channels it became apparent that pharmacists would be called on to prepare sterile preparations for injection. This operation involved a potential break in the sterile chain, and therefore, in the eyes of the law, was a manufacturing operation. In the terms of the Act it became necessary to require licences for pharmacists. This step may have seemed at first to be a trifle anomalous, since no similar requirement was made for hospital pharmacy (for in this case no sale is involved) and because a pharmacist can dispense, say, a sterile glucose transfusion solution without the formality of a license. However, the original Act was formulated at a time when it was impossible to foresee such developments as the discovery of penicillin.

The requirements necessary to obtain a licence involve some expense and trouble, and doubtless this is one reason why fewer pharmacists have applied for licences than might have been expected. (At the moment of writing 128 licences have been issued.) Another cause militating against applications has been the fact that in many quarters doctors have preferred to make up solutions at the bedside from a vial of penicillin and an ampoule of sterile water. To this there can be no objection, but reports have been received from some quarters, generally the smaller hospitals, that sometimes nurses have been allowed to make up multi-dose containers of penicillin. This practice is not so defensible, and in a recent circular to the Press attention was drawn to the point, indicating that where there was in the vicinity a pharmacist licensed under the T.S.A. the excellent facilities that have been provided should be employed.

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The Budget and the Trade

IN the course of his Budget speech in the House of Commons on Tuesday, April 6, the Chancellor of the Exchequer, when advising the House of certain changes in the rates of purchase tax, said: "I am now working out with the Minister of Health proposals for widening the scope of the present exemption for essential medicines." Hitherto, he said, the exempt list had been restricted to certain more costly preparations. They proposed to extend it to include a much wider range of non-proprietary medicines. A provision with this object would be included in the Finance Bill. Pharmacy and the drug trade will derive at least some satisfaction from the statement by Sir Stafford Cripps that at long last their claim that drugs and medicines, equally with foodstuffs, should never have been made the subject of a tax imposed to check spending on non-essentials is being considered.

The small reduction in the rate of tax notified on toilet preparations, perfumery and cosmetics from 125 per cent. to 100 per cent. will be welcomed by the manufacturers, whose home trade had fallen short of the limited quota allowed them. We fear, however, that the still high rate of tax on these goods will continue to attract black-market activities. The Chancellor's decision to reduce the rate of tax on toilet soaps and substitutes, shaving creams, shampoos, tooth-pastes, antiseptics and unperfumed toilet goods will improve the home trade and should, indirectly, assist

export trade in these products. The tax on some toilet requisites has been reduced to 33½ per cent. and in others it has reverted to 100 per cent. The photographic trade, which was looking forward to something of a revival of trade in the forthcoming season, has received a further setback by an increase in the rate of tax to be imposed on most cameras to 66⅔ per cent. The changes in rates of purchase tax apply to goods which are delivered on sale, or appropriated to retail trade or similar purpose, on and after April 9. A change in taxation outside purchase tax of interest to pharmacists is the cancellation of the Excise duty of eightpence per gallon on unsweetened table waters, which include soda water and similar aerated non-alcoholic preparations. Details of Budget changes affecting the trade are given on p. 476.

The Monopoly Bill

THE structure of the Monopoly (Inquiry and Control) Bill, which, in effect, aims at outlawing trading practices which are found to work against the public interest, is published in this issue (p. 461) in the form of an official explanatory memorandum issued with the Bill (H.M. Stationery Office, sixpence). The scope of inquiry to be authorised by the Bill is such that many established and orthodox methods of trading practised today, to which almost every business is a party, may become the subject of investigation by the Monopoly Commission that is to be set up to inquire into "monopolies and restrictive arrangements in industry." The Bill does not propose to condemn either monopolies or restrictive trading practices, as such, although it provides for power to investigate such conditions with the object of checking malpractices. The Monopoly Commission, which is to be "independent" and to consist of from three to eight members, will investigate only such cases as the Board of Trade may think fit to refer to it. The Commission may or may not be requested to express its opinion as to whether the conditions of trading are considered to be against the public interest. In cases where practices deemed to be against the public interest are reported, the President of the

Board of Trade, subject to affirmative resolutions of both Houses of Parliament, is given power to issue an Order making such practices unlawful. The Order may prohibit the making or carrying out of agreements and prohibit boycotts, conditional sales and preferential terms, and may refer to home trade or export business.

At this early stage it would serve no useful purpose to surmise to what extent and by what methods this legislation will be operated. Many trades and industries have been urged during the past decade by successive Presidents of the Board of Trade and other Ministers to organise themselves on the ground of greater efficiency and economy in a manner that may, under this measure, be considered "restriction." It is, however, in our opinion, reasonable to assume that the Government has no intention of using it as an instrument to probe into the workings of everyday methods of business, many of which, in some respects, may be "restrictive" or "conditional" but which are economically sound and operate in, and not against, the public interest.

The Monopoly Commission is faced with a difficult and delicate task. It has to (a) establish standards of competition which are conducive to efficiency without waste, and (b) define what trading practices, although admittedly restrictive, are sound economically, and so define, for the guidance of those responsible for the conduct of business, what is in the public interest and what is not.

Disadvantages of DDT

A LIST of faults seriously limiting the effectiveness of DDT as an insecticide, published in the "British Medical Journal" (April 3, p. 648), demands the attention of all concerned with the manufacture and distribution of this otherwise valuable insecticide. Among the inherent drawbacks attributed to DDT in the *B.M.J.* article are (a) that it acts only by contact with insects, (b) that the time of contact necessary to give the lethal dose is longer than at first thought, and (c) that contrary to earlier opinion, the insects may recover after showing slight signs of poisoning. DDT has, in addition, an irritant action which has been found to drive away mosquitoes, including

the malaria bearer, *Anopheles gambiae*, before they have received the lethal dose. If the irritant effect applies also to the house fly, "the value of the little impregnated cards which are now being sold to destroy house flies may not be great," comments the *B.M.J.*

Practical difficulties encountered in using DDT include the absorbent effect of certain kinds of treated surfaces resulting in removal of the DDT from the site of action.

In common with many other insecticides, DDT has the disadvantage of killing beneficial insects such as bees and natural pest enemies, and DDT spraying has sometimes been followed in practice by infestations of other insects, such as red spiders and mealy bugs, formerly controlled by their natural enemies. The phenomenon bears out Volterra's Law of the Destruction of Averages, according to which the destruction of natural enemies at the same rate as the pests themselves are destroyed leads to a more rapid building-up of the pest population. The effect is particularly significant when a highly potent insecticide such as DDT is being used.

Although lack of information on how DDT kills insects hinders progress in practical work, three general rules are put forward by the *B.M.J.* for the use of the compound as an insecticide:—

1. DDT must be left where it will contaminate insects.
2. The contamination must be rapid enough to take effect before irritation becomes important, and
3. The compound must remain attached to the insect sufficiently long to be effective. For absorbent walls, a suspension of DDT, which leaves the insecticide deposited superficially, has been recommended, while the use of an adhesive to prevent the loss of toxicity of treated walls by washing, or of treated cattle hides by licking, has also been suggested. Workers disagree on the size of crystal that is most active.

In view of the fact that perhaps the most dangerous drawback of DDT is its lack of specificity, recent preliminary work by Ripper and others, carried out in a commercial laboratory at Cambridge, on coating particles of DDT with a selective "bait," may prove particularly important.

STERILITY OF ETHER

SPEAKING at an evening meeting of the North British Branch of the Pharmaceutical Society in Edinburgh on March 24, MISS JANET S. McEWAN, B.Sc., Ph.C., described investigations into the sterility of ether. It was curious, she said, that both the Extra Pharmacopœia and the British Pharmaceutical Codex stated that æther, B.P., was used for injection. Æther, B.P., had no test for the presence of aldehyde and usually contained an appreciable amount. It therefore appeared advisable to use, for injection, æther anæstheticus, B.P., which should be free from aldehyde. Anæsthetic ether was used throughout the investigations.

As ether is used as a skin antiseptic on account of its supposed bactericidal properties, it was thought that it might normally be sterile. To test for sterility, a sample was allowed to evaporate from a sterile plugged tube. Some nutrient medium was then added aseptically, and the tube incubated at 37°C for five days. The validity of the method was tested by contaminating another sample of ether with *B. subtilis* and then testing for sterility as before. A strong positive reaction was obtained. The first sample, taken from a stock bottle, was found to be sterile. Other samples taken from sealed bottles and ampoules were also proved to be sterile.

Bactericidal Effect Tested

The bactericidal effect of ether, was ascertained by inoculating a sample with a spore-forming organism *B. subtilis*, and filling it into ampoules which were then sealed. The ampoules were tested for sterility at daily intervals. The first six tests were positive, but in the seventh test (i.e., seven days after contamination) half the samples were positive and half negative. From the eighth day and thereafter, no growth was obtained. This suggested that ether was self sterilising in about a week after deliberate contamination. It was therefore unlikely that any samples which had been in sealed containers for more than a week would be non-sterile.

To confirm that ether was normally sterile, sterility tests were carried out on samples that had been liable to accidental contamination during the previous six days, from the following sources:—(a) A bottle which had been used at intervals for some time; (b) an ether storage tank; (c) a bottle which had been filled without any aseptic

precautions; (d) ampoules which had not been sterilised before the ether was filled into them; and (e) ampoules filled in an open laboratory without special precautions. The bottles used for the samples were washed but not sterilised. In no case was a growth obtained, suggesting that more than the accidental contamination found under ordinary working conditions was required to cause difficulty in finding a sterile sample of ether.

Attempt at Autoclaving

As a matter of academic interest an attempt was made to sterilise ether by autoclaving, using 1-mil ampoules. It was found possible to autoclave the ampoules at 110°C for twenty minutes. At 115°C autoclaving was sometimes successful but on one or two occasions all the ampoules were shattered. Before sterilisation the ether was tested and found to comply with all the B.P. tests for purity. After autoclaving the ether appeared normal but, on testing, decomposition was indicated by the presence of peroxides.

In an attempt to overcome decomposition on autoclaving, varying amounts of a preservative (pyrogallallic acid) were added before the ether was filled into ampoules. It was found that concentrations of 1 in 3 million, 1 in 1 million and 1 in 500,000 were ineffective, but solutions of 1 in 100,000, 1 in 10,000 and 1 in 1,000 were successful in preventing formation of peroxides. Such a high proportion of pyrogallallic acid, however, might be contraindicated for injection, and might cause darkening of the ether on storage for a few months. Ampoules filled under nitrogen and autoclaved as before withstood the high temperature and showed no evidence of peroxide formation.

Cyanide Poisoning Poster. — A poster for factory use setting out the precautions to be observed when handling cyanides and the emergency treatment of cyanide poisoning, has been issued by H.M. Stationery Office (price twopence). The poster recommends the use of an antidote made by mixing equal quantities of the following solutions: (a) 158 gm. ferrous sulphate crystals dissolved in 1 litre of water; (b) 60 gm. anhydrous sodium carbonate dissolved in 1 litre of water. Half a tumblerful of the mixture should be administered immediately.

PHYSICO-CHEMICAL METHODS OF PHARMACEUTICAL ANALYSIS

By W. F. Elvidge, Ph.D., B.Sc., F.R.I.C.

5. — Chromatography and Emulsion Spectroscopy.

ALL the previously mentioned procedures can often be combined with chromatography, which is essentially a process of separation. Although first used in 1904 by Tswett, the general value of chromatography was not appreciated until the study of the carotenoids became important. Although the term originally suggested indicates a method for dealing with coloured substances, its use is not now restricted to such a narrow field, and techniques are available for dealing with colourless materials. Its scope has also been extended, so as to take advantage of physical properties other than adsorption affinities, and the subject is now divided into three main groups:—

- (a) Adsorption chromatography (which includes fluid and displacement chromatography).
- (b) Base-exchange chromatography.
- (c) Partition chromatography.

(a) **ADSORPTION CHROMATOGRAPHY** depends upon the relative adsorption affinities of different substances. As the activity of an adsorbent varies greatly with its method of preparation, standardised products, particularly of the alumina, are desirable. The choice of adsorbents, solvents and eluting solutions is still very empirical and the following substances have been used as adsorbents for various purposes: alumina, charcoal, bone meal, magnesia, lime, sand, silicic acid, talc, alkali and alkaline earth carbonates, sugar and starch, the relative adsorbent capacities decreasing approximately in that order. In general the adsorption affinity of compounds of similar constitution runs parallel with molecular complexity such as the number of double bonds and conjugation, and therefore the most coloured compounds are usually the most strongly adsorbed. No general method can be given for the technique, but the principle is to dissolve the mixture requiring separation in a suitable solvent, pass this through a prepared column of adsorbent which may cause separation into a number of coloured or otherwise distinguishable zones. These are further separated by continuing the passage of the solvent until distinct zones are formed. The column may be cut between

each zone and the adsorbed pigment dissolved out, or different solvents may be passed through the column—a process which will overcome the adsorption affinity of the material sought. The separation may require repeating where differences in affinity are slight. With colourless compounds, the position of various zones may be found by inspection under ultra violet light, by painting with a suitable reagent, or by incorporating a dyestuff of the same affinity as the substance sought. Examples of this technique of interest to pharmaceutical problems include: the separation of β carotene, vitamin A, xanthophylls and sterols using bone meal, chloroform, petroleum ether and acetone; oestrone from urine; and alkaloids in galenical preparations. The quantitative estimation of alkaloids is facilitated by chromatography on alumina columns, and good results have been reported with cinchona, nux vomica, ipecacuanha and belladonna preparations.

(b) **BASE EXCHANGE CHROMATOGRAPHY**—in which ionic exchange takes place. Examples are alumina for basic amino acids, acid-washed alumina for acidic amino acids, and synthetic resins for acid and alkaline substances, amino acids, and vitamins. An important example of such a process is the use of the synthetic zeolite Decalco, which when activated will quantitatively adsorb aneurine from acid solutions and allow undesirable impurities to pass through. The aneurine can subsequently be removed from the column by strong saline solutions.

(c) **PARTITION CHROMATOGRAPHY** has been developed in recent years for particular use in separating amino acids and antibiotics including the various penicillins. This method is based on the partition of a substance between two immiscible solvents such as water and benzene, a column of solid such as silica gel, paper or starch being used to support the aqueous phase. A method for separating amino acids, using filter papers, which has been developed, gives a two-fold separation. A drop of protein hydrolysate is placed at the corner of a square piece of filter paper, and the chromatogram is developed in one direction by allowing collidine to flow over in an atmosphere containing a trace of diethylamine. The paper is then dried, turned through a right angle, and developed in

the other dimension with phenol. This causes the separation of the amino acids such as serine, glycine, alanine, valine, leucine, etc., the position of which can be demonstrated by the use of ninhydrin, and their identity established from their position on the paper as compared with known mixtures, or by consideration of their adsorption isotherms.

Emission Spectroscopy

Analysis based on the emission spectra of metals is becoming of importance in pharmacy chiefly for detecting traces of metallic impurities, which are significant for the stability of certain medicaments (especially of antibiotics). In addition emission spectroscopy is invaluable in problems connected with human, animal and plant nutrition, where mineral deficiencies may give rise to disease or where excesses may produce toxic symptoms. Spectroscopic examination will often help in diagnosis of the mineral deficiencies of plants because it can give a picture of the whole mineral constituents present in soils. Emission spectroscopy is largely used in advisory soil work.

The principles underlying emission spectroscopy are as follows:—

(a) Each metal when suitably excited gives rise to characteristic series of lines, no two of which are at precisely the same wave length, although the total number recorded is over 100,000.

(b) The number and sensitivity of the lines exhibited by any one metal depends upon the degree of excitation, varying from slight in the bunsen flame to intense in electric arcs and sparks.

(c) The intensity of any emission spectrum line exhibited by a metal under standard methods of excitation is proportional to the concentration of metal present. Quantitative analysis is based on comparison of these intensities given by known amounts.

The types of apparatus used vary with the nature of the problem. The simplest cases where only flame spectra are used will require only small spectrographs, with small dispersion. When high excitation by electric means are used, a large spectro-scope is necessary to resolve completely the numerous lines produced. Below are examples of their use:—

(a) **THE LUNDEGARDH METHOD.**—Used in soil analysis for major elements such as available potash, magnesium and calcium. An acetic extract of the soil is sprayed by a current of acetylene in a

special burner and photographed by a medium dispersion spectrograph.

(b) **ROUTINE METALLURGICAL ANALYSIS METHOD.**—For macro quantities of metals. This can be carried out on medium spectrographs, using arcs or high tension sparks between pieces of the metal serving as electrodes.

(c) **CARBON ARC METHOD.**—This method, developed by Professor Goldschmidt at Göttingen, primarily for analysis of minerals and rocks, is the most useful for pharmaceutical, biological and nutritional work. It is applicable to non-conducting powders such as non-conducting ash from pharmaceutical or biological specimens. The ash obtained by controlled conditions is mixed with an equal weight of pure powdered carbon and filled into a specially constructed carbon electrode bored to take about 7 mgm. of sample. This is made the cathode and the anode is another piece of pure carbon. On passing a current of about 9 amps and 70 volts, the carbon is evenly burnt through in about three minutes, thus volatilising all the sample. The spectrum is photographed during this period. Only the layer of the arc immediately above the cathode is photographed, because it is found that in the cathode layer there is a concentration of the elements. Standardised conditions of arcing are necessary and the carbon electrodes must be free from impurities of the metals sought. This usually gives no trouble except with boron, where the carbon electrodes are replaced by copper. The method may be made either semi- or fully-quantitative. For a semi-quantitative estimation, a comparison is made with mixtures of known content. Usually a standard mixture containing the equivalent of about 1 per cent. from each of about twenty metals is prepared, and dilutions of this standard mixture are made with carbon containing from one part in ten million to 1 per cent. of each metal. Owing to their varying sensitivities, some of the lines of the metals will not be found at the lower concentrations, but by choosing the most sensitive lines it is possible to obtain varying intensities of blackening on the photographic plate from less than one part per million to about 1 per cent. The differences can be compared by visual inspection, thus giving quickly an approximate idea of the order in which each metal is present. This method can also be adapted for full quantitative examination when the intensity of the lines produced by the metal is compared photo-

electrically with that of another metal present in constant amount. This is known as the internal standard method, and suitable metals have to be found which give readable densities. The wave lengths of the internal standard and of the metal sought should be near together, so that differences in the gamma of the plate will have no effect. After selecting suitable lines, their relative intensities are measured on a photo-electric microphotometer, which consists of a standardised source of light passing through the plate and falling on to a photo-electric cell connected with a delicate galvanometer. The current is adjusted to give a maximum deflection when passing through the clear plate. The apparatus is so arranged that the line under examination can be slowly passed through the beam of light, thus cutting down the photo-electric current which gives a minimum reading on the galvanometer. The readings between the element sought and the internal standard are compared and their logarithmic ratios calculated. If these ratios are plotted on a graph against the logarithm of the concentration of the

metal sought, a straight line should be obtained. If there is considerable background, correction must be made for this. Once having obtained standard calibration curves, the concentration present in any sample can be compared and calculated similarly from the graph. In certain cases the sensitivity can be increased by a concentration method which aims at precipitating all the trace elements required away from very large amounts of undesired metals such as alkalis and alkaline earths. Considerable work has been done in elaborating these methods. One of the most valuable general precipitants for trace elements consists of a mixture of tannic acid, 8-hydroxyquinoline and thionalide, and this allows of the simultaneous estimation of minute quantities of cobalt, nickel, molybdenum, chromium, vanadium, tin, lead, titanium and zinc in quantities of the order of 0.2 to 100 μ gm. It is largely used for the analysis of blood sera, plant materials, soil extracts and antibiotic media and other materials, where the presence of trace elements is of considerable importance.

MEDICAL ABSTRACTS

A Treatment for Gingival Disease.—King ("British Medical Journal," 1947.II. 987) suggests that the gnawing of sugar-cane may obviate the need for caustic or oxidising agents or other chemicals in the treatment of gingival disease. In two groups of boys the use of raw and canned sugar-cane soon stopped bleeding from the gums. The value of the method is considered to be limited to a cleansing effect, and to stimulation by friction of resistance to injury in certain parts of the gums.

Transmission of Staphylococcus.—To test the relationship between nose and skin carriage of *Staphylococcus aureus* in persistent carriers, Johnston ("Lancet," February 28, p. 324) administered penicillin intranasally to patients in a male surgical ward. In twenty-one patients a ten-day course significantly reduced nasal carriage during treatment, whereas systemic penicillin treatment of fifteen patients failed to reduce nose or skin carriage of *S. aureus*. Failure of intranasal penicillin in five other cases is attributed to colonisation of either or both sites.

Streptomycin with Sulphadiazine.—In nine patients treated for brucellosis, a combination of sulphadiazine and streptomycin was found by Spink and others ("Journal

of the American Medical Association," February 7, p. 382) to show more satisfactory results than any other drug. Although an optimum dosage schedule has not been determined, the workers advise intramuscular doses of 0.5 gm. streptomycin every six hours for seven days, with simultaneous oral sulphadiazine therapy (an initial dose of 4 gm., followed by 1 gm. every four hours for two or three weeks).

Urethane in Leucæmia.—In treatments of leucæmia and lymphomatous diseases with urethane, four cases are reported by Hirschboeck and others ("Journal of the American Medical Association," January, p. 90) to have had "satisfactory remissions" from chronic myelogenous leucæmia. The dosage was 1 gm. three times daily. Severe leucopenia was, however, produced in a majority of nine cases of acute and subacute leucæmia without effect on the course of the disease. The drug was administered orally in 0.5 gm. enteric-coated capsules, and 0.5 gm. non-enteric-coated capsules, which, however, sometimes caused nausea and vomiting. For intramuscular injection, 40 and 50 per cent. solutions were used. As much as 2 gm. given daily by this route produced no local irritation but was followed by a hypnotic effect.

IRISH DRUG ASSOCIATION

At the annual dinner of the Wholesale Section of the Irish Drug Association, held in Dublin on March 16, Mr. A. W. Hughes (chairman of the section) presided. Mr. P. C. CAHILL, proposing "The Pharmaceutical Society of Ireland," said the Society, which was in its seventy-third year, exercised a considerable influence in the educational, social and commercial life of the country. It had two members on the National Health Council and it hoped shortly to have its own direct representative in the Senate. The Society always encouraged the formation of such organisations as the I.D.A. and supported trade interests in every way. For several years Mr. P. A. Brady (president of the Society) had been president of the retail side of the I.D.A., rendering yeoman service. Mr. BRADY, replying, said the Society, in helping to bring about such gatherings of wholesalers, retailers, or manufacturers, was doing a valuable service to the profession. It had the responsibility of turning out highly-trained students, fit to take their place as chemists in any branch of the profession. The Society was planning a curriculum to bring its students abreast of modern developments. Mr. Brady suggested that the manufacturing branch of pharmacy might absorb more young licentiates.

Toasts and Responses

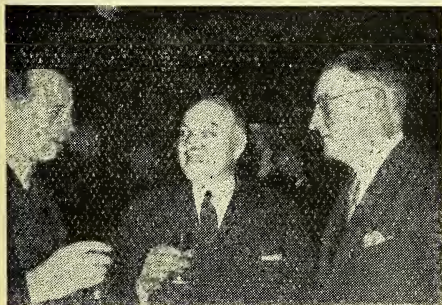
Mr. R. RICHMOND, proposing "The Irish Drug Association," said the wholesalers, although they had now formed their own federation, would always be glad of the existence of the I.D.A., which represented the vast bulk of retailers. He welcomed the new I.D.A. president (Mr. J. J. Roche)

and the new vice-president (Mr. D. Woulfe). Mr. ROCHE, responding, wished the new wholesale federation every success. The more both sides of the trade were organised the better.

Proposing "The Wholesale Section," Mr. T. C. SCOTT said the "Wholesale Drug Federation of Ireland" was a new title for old friends. He was proud, as a retailer, to think that the Association had been responsible for organising the wholesalers. He paid a tribute to the former secretary (Mr. R. J. Kidney) and hoped the wholesalers would consider doing more manufacturing, as at present they were importing many lines which should be made in Eire. Mr. A. W. HUGHES, replying, said he was proud to be chairman of the wholesale section. Mr. W. R. SUCH proposed "The Ladies," MRS. NORAH McCARRON replying. Mr. A. D. DAVIDSON proposed "The Secretary," and Mr. ROBERT KIDNEY proposed "The Chairman."

LECTURE TOUR IN EIRE

A SERIES of lectures on pharmaceutical topics has been given in Eire by Mr. A. R. G. Chamings, B.Pharm., Ph.C. (Ciba Laboratories, Ltd.). At a meeting held in Dublin on March 18, under the auspices of the Students' Representative Council, Mr. Chamings lectured on "Sex Hormones." Miss P. Fallon (chairman) presided, and those present included Messrs. P. A. Brady (president, Pharmaceutical Society of Ireland), James G. Coleman (registrar), and J. J. Roche (president, Irish Drug Association). The audience included a number of medical students. A vote of thanks to the speaker was proposed by Mr. Brady and seconded by Mr. Roche. At Cork, Mr. Chamings also spoke on sex hormones to a meeting attended by some eighty chemists and students, Mr. D. J. O'Hanlon (vice-chairman, Cork Guild of Pharmacy) presiding. Afterwards a discussion was initiated by Dr. R. McCarthy (assistant medical officer, Cork Mental Hospital), and a vote of thanks was proposed by the chairman and seconded by Mr. J. J. O'Regan. Messrs. L. J. Johnson (secretary of the Guild), R. Daly and Mr. J. O'Neill, also spoke. At Sligo, Mr. Chamings gave a lecture on anti-histaminics to an audience of doctors, pharmacists and assistants, under the auspices of the Sligo Chemists' Association. Mr. T. P. Toher presided, and discussion was opened by Dr. M. O'Connor.



AT I.D.A. ANNUAL DINNER: Messrs. D. Woulfe (vice-president), A. D. Davidson (a director, May, Roberts & Co. (Ireland), Ltd.), and J. J. Roche (president, Irish Drug Association).

BUDGET CHANGES

THE Commissioners of Customs and Excise have issued a new Purchase Tax Notice (No. 78 L), which gives the revised schedule of chargeable goods announced by the Chancellor of the Exchequer in his Budget speech. Principal changes are:—

PERFUMERY AND TOILET PREPARATIONS.—Perfumery and toilet preparations (medicated or unmedicated) revert to the rate of 100 per cent. Soap and soap substitutes for toilet purposes, shaving creams, shampoos, dentifrices, eye lotions, mouth washes and antiseptics, calamine lotion and similar alleviating toilet preparations when unperfumed, revert to the $33\frac{1}{3}$ per cent. rate.

TOILET REQUISITES.—Brushes, combs, scissors, razors and razor blades, razor strops, razor sharpeners, dry shavers and dry shaver heads, sponges, toilet paper, dental sticks and tooth picks, not being articles supplied as part of a toilet set, are at the rate of $33\frac{1}{3}$ per cent. Other toilet requisites (with the exception of face cloths and towels, which are chargeable at $66\frac{2}{3}$ per cent.) are at the rate of 100 per cent.

PHOTOGRAPHIC APPARATUS.—The rate for photographic cameras and enlargers, lenses and other parts of, and accessories to, is increased to $66\frac{2}{3}$ per cent. The new rate for unexposed, sensitised photographic paper, cloth, plates and film is also $66\frac{2}{3}$ per cent. Exemptions are made when the apparatus, etc., is suitable only for industrial, scientific or military use.

The new rates apply to goods which are delivered, on sale, or appropriated to retail trade on or after April 9.

The Chancellor has also abolished the duty of eightpence per gall. on **TABLE WATERS (UNSWEETENED)**, which include soda water and similar aerated preparations.

PENICILLIN PARTICLE SIZE

PRELIMINARY investigations to discover why oil-in-wax injections of penicillin were more effective when solid than when liquid suggested that the size of the penicillin particles was the most important factor. Recently, Chandler, Romansky and others ("Journal of the American Pharmaceutical Association, Scientific Edition," January, p. 21), devised a method for measuring particle size. They first diluted the injection with mineral oil, under standard conditions, and then transferred a standard volume of the product to the counting chamber of a haemocytometer, in which 200 of the penicillin particles were measured. A calibrated ocular micrometer was used in the micro-

scope for the purpose, and from the measurements the relative weights were assessed. By correlating the results from many batches with the blood levels obtained for each, the authors were able to classify the preparations into "large particle" type, in which 50 per cent. of the total relative weight was made up of particles 50 microns or more in length, and a "small particle" type, in which 50 per cent. or more of the relative weight consisted of particles less than 50 microns long. Apparently the larger particles are absorbed more slowly, and hence the levels in the blood prolonged.

COMING EVENTS

Monday, April 12

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS. Visit to Liverpool Radium Institute, meeting at Myrtle Street at 6.55 p.m. Mr. S. D. Littlewood, M.P.S., on "Victory Over Pain."

Tuesday, April 13

LEICESTER BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Board Room, Leicester Royal Infirmary, at 7.30 p.m. Annual meeting.

Wednesday, April 14

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, County Hotel, Canterbury, at 7.30 p.m. Mr. Charles Beaven, Ph.C., on "An Introduction to Pharmacology."

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Annual meeting.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Bridge School, Station Road, Wealdstone, at 7.30 p.m. Mr. B. J. Thomas, M.P.S., on "The New Ointment Bases."

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Hanley, at 7.30 p.m. Annual meeting. Speaker: Mr. H. C. Shaw, M.P.S.

Thursday, April 15

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Royal Hotel, Dundee, at 7.30 p.m. Annual meeting. Dr. D. McCall on "Current Pharmaceutical Affairs."

MANCHESTER PHARMACEUTICAL ASSOCIATION and PHARMACEUTICAL SOCIETY BRANCH, Council Chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Annual meeting.

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.1, 7-11.30 p.m. Dance.

WOLVERHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Star and Garter Royal Hotel, Wolverhampton, at 6.30 p.m. Annual dinner and dance. Tickets 15s. 6d. each from secretary.

Friday, April 16

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Reading of papers by members.

Monday, April 19

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Market Room, Golden Lion Hotel, Romford, at 7.30 p.m. Annual meeting.

C. & D. DISPENSING PRICE LIST

THE following price changes, which include the usual monthly alterations for March and reductions consequent upon the issue of a new

list of essential and costly drugs (see *C. & D.*, April 3, p. 430), should be noted by subscribers:—

Cost		Due allowance has been made for purchase tax at rates current at April 5 in both cost and dispensing prices	Dispensing price			Cost	Due allowance has been made for purchase tax at rates current at April 5 in both cost and dispensing prices	Dispensing price		
d.	per		4 oz. s. d.	1 oz. s. d.	1 dr. s. d.			4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
6 gm		Acridavina ..	gr.	0 1	3 9	20 oz.	Ergota			
56 lb.		Aloe Capensis pulv. ..	1 11	0 7	0 1		prap. S.I.(5)	—	2 11	0 5
38 dr.		Amphetamina S.I.(4)	gr.	0 1½	5 7	90 oz.	Ext. ergot. S.I.(5)	—	—	2 2
94 dr.		Atropina S.I.(4)	gr.	0 4	—	144 lb.	Ext. ergotæ liq. S.I.(5)	5 2	1 6	0 3
84 dr.		Atropinæ sulphas S.I.(4)	gr.	0 3½	—	156 lb.	Ext. ergotæ liq. '14 S.I.(5)	5 7	1 7	0 3
69 oz.		Barbitonum R only	—	—	1 8	24 oz.	Ext. rhei liq., B.P.C.	—	3 8	0 6½
69 oz.		Barbitonum solubile R only	—	—	1 8	12 oz.	Ext. thymi liq., B.P.C.	—	2 4	0 3
54 oz.		Benzocaina P.I.(8)	—	—	1 3	29 lb.	Liq. acriflavini, B.P.C.	1 0	0 3½	—
88 lb.		Benzyl benzoas	3 2	0 10	0 2	15 oz.	Liq. atropinæ sulph. S.I.(5)	—	2 3	0 4
31 oz.		Brucina sulphas	—	—	0 8	46 lb.	Liq. pancreatini	1 8	0 6	0 1
60 oz.		Caffeina ..	—	8 9	1 5	44 lb.	Liq. strych. hyd. S.I.(5)	1 7	0 5½	—
38 oz.		Caffeina citras	—	5 7	0 10	12 dr.	Oculent. atrop. S.I.(5)	tube	—	1 9
10 25s		Carbachol tab.	tube	1 3	—		Orthocaina P.I.(8)	—	—	3 10
80 oz.		Carbromalum.	—	—	1 11	162 oz.	Pancreatinum ..	—	4 0	0 7
102 oz.		Chiniofonum ..	—	—	2 5	100 dr.	Papaveretum D.D.	gr.	0 4	—
20 dr.		Cinchonidina ..	—	—	2 11	99 dr.	Papaverinæ hydrochlor. S.I.(4)	gr.	0 4	—
15 dr.		Cinchonidinæ hydrochlor. ..	—	—	2 3	99 dr.	Papaverinæ sulphas S.I.(4)	gr.	0 4	—
15 dr.		Cinchonidinæ sulphas ..	—	—	2 3	52 oz.	Phenobarbiton. solubile R only	—	—	1 3
18 dr.		Cinchonina ..	—	—	2 8	52 oz.	Phenobarbiton. R only	—	—	1 3
12 dr.		Cinchoninæ hydrochlor. ..	—	—	1 9	78 dr.	Pituitary (whole)	gr.	0 3	—
14 dr.		Cinchoninæ sulphas ..	—	—	2 0	6 gm	Proflavina ..	gr.	0 1	3 9
30 dr.		Corpus luteum	gr.	0 1½	4 5	6 gm	Proflavin. hemi-sulph. ..	gr.	0 1	3 9
36 dr.		Dithranol ..	gr.	0 1½	5 3		Quinidina ..	gr. x	0 9	—
20 gr.		Digitalinum amorph. S.I.(4)	gr.	2 11	—	162 oz.	Quinidinæ sulph.	0 8	—	3 2
58 lb.		Elix. æthyl-morph. et terpin. P.I.(13)	2 5	0 8	0 1½	132 oz.	Quinina ..	0 6	—	2 6
12 gr.		Emetin. et bism. iod. S.I.(4)	gr.	1 9	—	96 oz.	Quinin. dihydrochlor.	0 6	—	2 4
504 dr.		Emetinæ hydrochlor. S.I.(4)	gr.	1 8	—	93 oz.	Quinin. hydrobrom.	0 5½	—	2 3
32 lb.		Emuls. acriflav. (4s. per lb.)	1 2	0 4	—	96 oz.	Quinin. hydrochlor. ..	0 5½	—	2 3
44 lb.		Emulsio benzyl. benzoat. ..	1 7	0 5½	—					
128 lb.		Emulsio menth. piperitæ ..	4 7	1 3	0 2½					

STOCK EXCHANGE PRICES

Quotations are the average for the day stated. New securities are shown in italics.

£1 unit unless otherwise stated	Feb. 27 1948	Mar. 31 1948	£1 unit unless otherwise stated	Feb. 27 1948	Mar. 31 1948
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Albright & Wilson, ord., 5s. ...	—	29 3	Idris, "A" ord. ...	38 9	38 9
Allen & Hanburys, pref. ord.			Ilford, ord. stock, 5s. ...	23 9	25 7½
7% cum. ...	31 3	31 3	Imperial Chemical Industries, ord.	45 0	49 3
Amber Chemical, ord., 2s. ...	10 0	10 0	Imperial Chemical Industries, 7%		
Amber Chemical, 5% cum. pref.	23 9	24 0	cum. pref. stock ...	36 10½	37 9
Ascotts Pharmacies, ord. stock, 5s.	13 9	13 9	International Sponge Importers,		
Aspro, ord. stock, 5s. ...	40 0	43 9	ord. stock, 5s. ...	7 0	6 6
Beecham Group, defd., 2s. 6d. ...	19 0	21 10½	Kent, G. B., & Sons, 5% cum.		
Beecham Maclean Holdings 4%			ptpg. pref., 12s. 6d. ...	17 6	17 6
red. cum. pref. ...	21 3	21 3	Kershaw, A., & Sons, ord., 1s. ...	2 4½	2 4½
Boake, Roberts, ord., 5s. ...	32 6	32 6	Kleeman, O. & M., ord. stock, 1s.	27 6	27 6
Boots (Eastern) "A" pfd. 6% cum.	32 0	32 0	Laporte Chemicals, ord. stock ...	22 6	21 3
Boots (Northern) "A" pfd. 6% cum.	32 0	32 0	Lever Brothers & Unilever, ord.	50 0	52 6
Boots (Western) "A" pfd. ord.			Lewis & Burrows, ord. stock ...	30 0	30 0
(7% non-cum.) ...	37 9	37 9	Lewis & Peat, ord., 1s. ...	2 7½	2 7½
Boots Pure Drug, ord., 5s. ...	51 0	53 0	Liebig's Extract of Meat, ord., £5	310 0	310 0
Borax Consol., defd. ord. stock	55 7½	59 4½	Macleans, 4% red. cum. pref. ...	21 3	20 0
British Alkaloids, ord., 1s. ...	14 0	13 0	Mellin's Food, 6% cum. pref. ...	7 6	10 0
British Chemicals & Biologicals,			Milton Antiseptic, ord., 10s. ...	25 0	25 0
4% cum. red. pref., ...	21 6	22 0	Mono Containers, 5s. ...	17 6	17 6
British Drug Houses, ord., 5s. ...	10 0	10 6	Monsanto Chemicals, ord., 5s. ...	57 6	57 6
British Emulsifiers, 2s. ...	1 6	1 6	Pears, A. & F., 5% deb. stock,		
British Glues & Chem., ord., 4s.	20 0	21 0	irred. ...	135%	135%
British Industrial Plastics, ord., 2s.	6 9	8 0	Potter & Clarke, ord. 1s. ...	5 0	5 0
British Optical & Prec. Eng., 5%	—	98%	Reckitt & Sons, ord. stock ...	125 0	110 0
British Oxygen Co., ord. stock ...	90 0	98 9	Rolls Razor, pref. ord., 10s. ...	26 3	26 3
British Xylonite Co., ord. stock ...	120 0	125 0	Sangers, ord. stock, 5s. ...	31 3	32 6
Burt, Boulton & Haywood, ord.	26 3	26 3	"Sanitas" Trust, ord., 10s. ...	23 9	25 0
Bush (W. J.), & Co., ord.	85 0	85 0	Savory & Moore, 5½% 1st red.		
Camwall, ord. ...	20 0	20 0	cum. pref. stock ...	22 10½	23 5½
Cooper, McD. & Robertson, ord.	37 6	36 3	Sherley, A. F. & Co., 8% cum.		
Cow, (P.B.) & Co., ord. stock, 4s.	19 6	19 6	prefd. ord. ...	23 9	25 7½
Cow & Gate, ord. stock, 1s. ...	3 6	3 6	Smith & Nephew Associated Cos.,		
Crosfield, J., & Sons, 5% cum.			ord., 4s. ...	19 0	18 6
pre-pref. ...	26 6	26 3	South African Druggists, ord. 5s.	31 3	32 6
Cussons Sons & Co., ord. stock, 2s.	22 6	23 0	Southalls (Birmingham), stock, 5s.	43 9	41 10½
Distillers, ord. stock, 4s. ...	26 3	27 9	Sternol, 8% cum. ptpg. pref.		
Dubarry Perfumery Co., ord., 1s.	4 9	5 0	ord., 10s. ...	14 0	13 0
Dunlop Rubber Co., ord. stock ...	68 9	73 9	Stevenson & Howell, ord. stock, 5s.	27 6	27 6
Energen Foods Co., ord., 2s. ...	8 6	6 10½	Taylor's, Cash Chemists, London,		
Eno Proprietaries, 5½% cum. pref.	26 3	26 3	6% cum. pref. ...	30 0	28 9
Eueryl, stock, 2s. ...	6 3	6 3	Taylor's, Cash Chemists, Trust,		
Evans Medical Supplies, ord. stock	47 6	47 6	6% cum. pref. ...	30 0	29 4½
Field, J. C. & J., ord., 10s. ...	25 0	24 4½	Taylor's Drug Co., 7% "A"		
Fisons, ord. stock ...	56 10½	60 0	cum. pref. ...	32 6	32 6
Galloway, P. H., ord., 2s. ...	5 0	5 3	United Glass Bottle, ord. stock ...	86 3	77 6
Genatosan, 8% cum. pref.	36 3	36 3	Veno Drug Co., 12% cum. pref.		
Gillette Safety Razor Co. shares			ord. ...	43 9	41 3
(no par value) ...	\$44.50	\$51.50	Virol, ord. ...	75 0	75 0
Glaxo Laboratories, ord. stock, 10s.	370 0	370 0	Viscose Development Co., ord.		
Glaxo Laboratories, 8% cum.			stock, 5s. ...	11 10½	11 3
prefd. ord. stock, 10s. ...	19 8½	19 8½	Vitamins, 1s. ...	4 9	4 9
Gossage, W., & Sons, 5% 1st cum.			Wesley, Harold, 5s. ...	15 0	15 7½
pref. ...	26 3	26 3	Whites (Timothy) & Taylors, ord.,		
Greeff-Chemicals Holdings, ord. 5s.	14 0	15 6	5s. ...	37 9	37 6
Griffiths Hughes Proprietaries, ord.	33 9	35 0	Whites (Timothy) & Taylors, 7½%		
Guiterman, S., ord. stock, 2s. ...	4 6	4 6	cum. pref. ...	36 3	37 6
Hampshire, F. W., stock, 5s. ...	87 6	83 9	Wright, Layman & Umney, 7%		
Horlicks, stock, 5s. ...	30 7½	31 10½	cum. pref. ...	31 3	31 3
Hovenden, R., & Sons, 7% cum.			Yardley & Co., ord., 4s. ...	62 6	62 6
"A" pref. ...	26 3	26 3	Yardley & Co., "A" ord., 4s. ...	62 6	62 6

CORRESPONDENCE

How to Remit Purchase Tax

SIR,—It is fantastic that retailers should be told that cuts in purchase tax may mean a loss to them of £30 millions. They ought not to lose a penny. When the tax is abolished or reduced they should be allowed the amount of tax by their suppliers, who should reclaim the tax from the authorities, a method I have previously advocated in greater detail in your columns.

S. E. A.

Dispensing Technicians

SIR,—In reply to Mr. Geoffrey Bailey's letter (*C. & D.*, March 20, p. 382) I would point out that the "Hall" dispenser has more than "a general idea of the art of dispensing." The examination includes organic and inorganic chemistry, materia medica, dispensing, the B.P. posology, prescription Latin, recognition of drugs, alkaloidal contents, etc. After thirty years in retail pharmacy I know that the bulk of dispensing is routine repetition work such as can be capably handled by "Hall" dispensers. Holders of higher qualifications will not be content to be "hewers of wood and drawers of water," as one writer put it. Distinction could be obtained by making the M.P.S.'s into "Fellows" and the "Hall" dispensers "members" of the Society. Persons taking a university course have obviously greater ambitions than making up mist, alb., mist. sodii sal., and the rest. Such people will naturally gravitate to the making of the more complicated pharmaceuticals in the laboratory. The dispenser of the future may become merely the distributor of the products of medical research. Even so he will have some qualification. What? That is the question.

Yours faithfully,
HALL CERT.

Illegible Prescriptions

SIR,—May I express support for Mr. R. E. Bell in his attitude towards the careless way in which doctors frequently "dash off" a prescription (see *C. & D.*, January 24, p. 127 and April 3, p. 446) to the detriment of the person who has to include a prolonged scrutiny before he even commences to earn his dispensing fee. I am sure Mr. Bell would be satisfied with honest-to-goodness legibility well short of copperplate or typewriting. The desired degree of legibility could be achieved in a fraction of the

time it takes chemists to decipher some of the careless scribble frequently presented as prescriptions. If some of the handwriting pharmacists encounter is really an expression of the personality of the prescriber, there would appear to be an extraordinarily high percentage of recklessness in the medical profession. The "trailing off" referred to by Xrayser (*C. & D.*, Jan. 31, p. 137) denotes, I think a lack of concentration bordering on the pathological! The suggestion of the "kettle calling the pot (slightly) black" is to my mind beside the point. I am not, as the Editor will have seen, a very good writer, but I have not, in over thirty years, had a wholesaler's order held up owing to bad writing. In the event of a chemist sending in an illegible order he would be put to some inconvenience, to say the least. A doctor seldom meets such retribution—it is the chemist who shoulders the burden. What can be done about it? If we stop treating the doctors' bad writing as something to be laughed over, or made the subject of a guessing competition, and treat it as the disgrace it really is; if we discontinue including the deciphering of prescriptions as a serious subject in a pharmacist's curriculum, I am perfectly certain that the result would be the same as if pharmacists wrote their labels in the same style—public opinion would quickly force the culprits to mend their ways. It is not Utopian to demand legibility. I know quite a few doctors who write a really good hand, and more who pass muster. The small number who turn out illegible scrawls are a menace to a pharmacist's peace of mind and throw out of gear any system of pricing prescriptions based on time.

Yours faithfully,
Anstruther. R. S. WHITELAW.

FIFTY YEARS AGO

Acetylene for Shop Lighting

(From the *C. & D.*, April, 9, 1898)

My attention was first drawn to the new [acetylene] light by seeing the brilliantly lighted window of a herbalist's shop in the north of London. Although nearly all the shops in the street were electrically lighted, this particular window outshone all excepting those in which the arc light was used. I had a long conversation with the proprietor and after making many inquiries as to management, cost, etc., I decided to adopt the light for my own shop. The generator I am using . . . is one made by an inventor named Bailey.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, April 7

DEMAND for PHARMACEUTICAL and FINE CHEMICALS continues on a substantial scale for export, although increased competition is now being encountered. Buying interest in the home trade has been small during the past week. Price changes have been confined to CAFFEINE CITRATE which has been reduced in price in some quarters by 1s. 6d. per lb. The new controlled maximum prices for METHYLATED SPIRITS are given on p. 481.

Crude Drugs

The markets for BOTANICAL DRUGS have experienced yet another quiet week, the majority of commodities attracting little interest and the prices showing only small changes on the week. An increased demand for AGAR, however, has caused spot prices to rise and holders of first-quality strip are now asking 19s. 6d. per lb; lower grades may be bought down to 17s. 9d. per lb. Some of the bales offered at present show poor grading. BUCHU LEAVES, B.P., are scarce on the spot; ovals are fairly plentiful but holders are receiving no inquiry. CASCARA SAGRADA continues inactive. Most offerings of TANGANYIKA CINCHONA BARK have been sold and it is reported that stocks of EUPHORBUM have been cleared. IPECACUANHA and KOLA NUTS are easier in price. In other sections of the markets, lower prices are asked for spot supplies of PAPAIN and for PERU BALSAM. STRYX is offered in Liverpool at 7s. 9d. per lb., duty paid. TURMERIC is difficult to find on the spot and shipment prices are hardening. Prices for many commodities are maintained in India, including CUMIN and FENNEL SEEDS.

Essential Oils

Business has been slow in ESSENTIAL OILS, but this is not unusual immediately before the Budget. Prices generally have been maintained at former levels; the exceptions are CADE, CINNAMON LEAF, and LEMONGRASS which are slightly easier. SASSAFRAS OIL continues firm.

U.S. Drug and Chemical Report

New York, April 2

THERE has been no special feature of the PHARMACEUTICAL and FINE CHEMICALS markets during the past week. FORMALDEHYDE, PARAFORMALDEHYDE, HEXAMINE and synthetic METHYL ALCOHOL were advanced in price on April 1, and a reduction is expected shortly in MERCURIAL PRODUCTS following easier conditions for the metal. GLYCERIN production in March and April is not expected to be much more than 70 per cent. of the January output.

In spite of reports of an improvement in both forward and spot purchasing of CRUDE DRUGS, prices have generally favoured buyers. BALSAM COPAIBA declined to 60 to 75 cents per lb., the lowest price for some considerable time. Prices of CARNAUBA WAX have fallen by 10 cents per lb.; No. 1 yellow is now quoted at \$1.14 per lb. COLCHICUM SEED and EVONYMUS BARK are in very short supply. U.S. Bureau of the Census reports show that the volume of imports of BOTANICAL DRUGS in 1947 was 21 per cent. lower than in the previous year; mucilaginous gums were 37 per cent. less and a similar decline was shown in imports of balsams, etc.

The ESSENTIAL OILS market has been featureless during the past week, with consumers again limiting their purchases to immediate requirements. 6,238,966 lb. of essential oils was imported into the U.S. in 1947, some 22 per cent. less than the volume for 1946.

Pharmaceutical Chemicals

ACETIC ACID.—The controlled maximum prices per ton, which came into operation on April 1, are as follows: B.P. (33 per cent.), 1 ton or over, £36; 10 cwt. but less than 1 ton, £37; 4 cwt. but less than 10 cwt., £38, delivered buyer's premises. 80 per cent., pure, is £30 per ton and 98-100 per cent. (commercial glacial), £43 per ton more than the rates for B.P. For deliveries of less than 4 cwt. there is no maximum price.

ALLOBARBITONE.—Current price for 10-kilo lots is 90s. per kilo; smaller quantities are quoted at 99s. per kilo.

AMIDOPYRINE.—Quotations are firmly held at from 53s. to 60s. per lb.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 9½d. per lb.

AMPHETAMINE.—Prices for the BASE and SULPHATE are from 150s. to 160s. per lb. as to quantity. The dextrorotatory sulphate is 16s. per oz.

ASPIRIN.—Makers' prices per lb. for powder (containers in brackets) are unchanged; 1-cwt. lots (28-lb.), 3s. 5½d.; resellers' schedule rates for quantities of 28 lb. and under 1 cwt., 4s. 4½d. (1-lb.), 4s. 3½d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1½d. (14-lb.), 4s. 0½d. (28-lb.). Net one month.

BENZOIC ACID.—Makers' quotations are at from 2s. 7d. to 3s. per lb. for B.P., with technical grade at 2s. 6d. to 2s. 8d. SODIUM BENZOATE is quoted from 2s. 6d. to 2s. 8d.

BISMUTH SALTS.—Makers' prices per lb. for 1-cwt. lots are as follows: CARBONATE, 14s. 10d.; CITRATE, 12s. 6d.; SUBNITRATE, SALICYLATE, 12s. 9d.; SUBGALLATE, 15s. 9d.

BROMIDES.—Current resellers' rates per lb. for POTASSIUM, in quantities of 28 lb. to 1 cwt. (containers in brackets), are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk, makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt. at 2s. 6d. Powder is 2d. per lb. extra. SODIUM is 1½d. per lb. less than above rates; AMMONIUM is ½d. per lb. more than above rates. Terms are net; carriage paid on 1-cwt. lots in U.K.

CAFFEINE.—Makers' prices per lb. are as follows: ALKALOID, anhydrous, from 41s. 6d. to 45s. 6d. and B.P. from 39s. 6d. to 43s. 6d., according to quantity; CITRATE, from 23s. to 27s.; SODIUM BENZOATE, from 24s. to 28s.; SODIUM SALICYLATE, from 24s. 9d. to 28s. 9d.; SODIUM IODIDE, from 29s. to 32s.

CITRIC ACID, B.P.—Makers quote 1s. 5½d. per lb., discount 5 per cent., for 1-cwt. lots, delivered, in the United Kingdom.

GUAIACOLS.—Supplies are very short; liquid is quoted at 14s. 6d. to 16s. per lb., and crystal and carbonate, 14s. to 15s. per lb., according to quantity.

MANDELIC ACID.—Current prices per lb. are: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Makers' prices are as follows: AMMONIUM CHLORIDE, B.P., powder, 9s. 5d.; lump, 9s. 3d. BICHLORIDE, B.P., powder, 8s. 1d.; lump or granular, 8s. 8d. MERCURIUS CHLORIDE, B.P., 9s. 4d. RED OXIDE, B.P.C., 10s. YELLOW OXIDE, B.P., 10s. 7-lb. lots are 6d. per lb. less than above prices; other quantities in proportion.

NICOTINAMIDE is quoted at 140s. per lb.; 14 lb., 132s. 6d.

NICOTINIC ACID.—Makers' list price is 65s. per lb.; in quantities of 14 lb., 62s. 6d., with prices of other amounts in proportion.

PANCREATIN.—Price of B.P. material is from 13s. 6d. to 16s. 6d., according to quantity.

PEPSIN.—Quotations for B.P. standard are from 29s. 6d. per lb.; 1-3,000 is priced at 35s., and 1-10,000 at 115s. per lb.

PHOSPHATES.—Makers' rates per lb. for SODIUM are as follows: B.P. granular, 1 cwt., 7½d., 28 lb., 9d.; feathery, 1 cwt., 8½d., 28 lb., 10d.; exciccated, B.P.C., 1 cwt., 2s. 2d., 28 lb., 2s. 6d.; ACID, B.P., crystals, 1 cwt., 1s. 9d., 28 lb., 2s. POTASSIUM, granular, 4s. 2d.; powder, 4s. 5d. per lb. AMMONIUM, B.P.C., 1 cwt., 2s. 6d.; 28 lb., 2s. 10d. per lb.

PIPERAZINE.—Current prices are from 4s. 6d. per oz., according to quantity.

POTASSIUM ACETATE, B.P.—Fine granular is 2s. 1½d. per lb. in 1-cwt. lots.

PROCAINE HYDROCHLORIDE.—Current quotations are from 42s. 6d. to 45s. per lb.

PYROGALLOL.—Current rates are as follows: 1 cwt., 21s.; 56 lb., 21s. 6d.; 28 lb.

22s. 6d. per lb. Resublimed, 4s. per lb. above these rates. Prices are net.

RESORCIN.—Continues in short supply. Current prices are at from 10s. 6d. to 12s. 6d. per lb., according to quantity.

SALICYLIC ACID.—Current resellers' rates per lb. (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 2s. 9½d. (1-lb.); 2s. 8½d. (2-lb.); 2s. 8d. (4-lb.); 2s. 7d. (7-lb.); 2s. 6½d. (14-lb.); 2s. 5½d. (28-lb.). Net one month.

SODIUM SALICYLATE.—Makers' quotation for 1-cwt. is 2s. 6d. per lb.; resellers' rates per lb. (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 3s. 3d. (1-lb.); 3s. 2d. (2-lb.); 3s. 1½d. (4-lb.); 3s. 0½d. (7-lb.); 3s. (14-lb.); 2s. 11d. (28-lb.). Net one month. Supplies have shown little improvement.

TARTARIC ACID, B.P.—British-manufactured acid is quoted at 230s. per cwt., delivered.

Methylated Spirits

INCREASED maximum selling prices per bulk gall. of industrial alcohol under the new Order (S.I. 1948, No. 584), which came into operation on April 1, are:—

Industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 4s. 6d.; 100 gall. and under 500, 4s. 8d.; 30 gall. and under 100, 4s. 10d.; 10 gall. and under 30, 5s. Strength 64 o.p., 1d. per gall. more; 66 o.p., 2d. more; 68 o.p., 3d. more; 74 o.p., 5d. more. For industrial methylated spirit of standard toilet quality, the prices are 2d. per gall. more than the rates specified above.

Pyridinised industrial methylated spirit: 500 gall. and upwards in one delivery, strength 61 o.p., 4s. 8d.; 100 gall. and under 500, 4s. 10d.; 30 gall. and under 100, 5s.; 10 gall. and under 30, 5s. 2d. Strength 64 o.p., 1d. per gall. more. For methylated resin finish of standard quality, prices are 2d. above, and for methylated shellac finish of standard quality, 4d. above, those of pyridinised spirit.

Mineralised methylated spirit: 100 gall. and upwards in one delivery, strength 61 o.p., 5s.; 30 gall. and under 100 gall., 5s. 2d.; 10 gall. and under 30, 5s. 4d.; strength 64 o.p., 1d. per gall. more.

The prices for industrial, pyridinised and mineralised are for plain material and if any substance is added the reasonable cost of such added substance may be added to the maximum prices.

Terms are delivery to buyer's premises; charges are made for packages but are credited in full when returned; the seller pays carriage on return of empty packages; cash in one month less 2½ per cent. discount. The seller may add any additional expense incurred by reason of a variation of any of the above terms.

For deliveries of less than 10 bulk gall. there is no maximum price.

Crude Drugs

AGAR.—Merchants are asking 19s. 6d. for No. 1 quality strip on the spot; lower grades are offered down to 17s. 9d. per lb.

ALOES.—Prices are unchanged. Cape, on the spot, is offered at 153s.; shipment offers are at 138s. to 140s., c.i.f. Curaçao in boxes is offered at 210s. to 230s., spot; forward, 200s. per cwt., c.i.f. Socotrine on the spot is quoted at 156s. to 190s. per cwt.

BALSAMS.—*Canada* is steady at 18s. 6d. per lb., spot. *Pará Copaiba*, spot, 5s. 3d. to 6s. per lb. for soluble. *Peru*, San Salvador, on the spot, is easier at 5s. 6d. per lb., duty paid; forward prices are maintained. *Tolu*, 18s. 6d. per lb., spot.

BUCHU.—Some inquiry, but only a small business done. B.P. leaves, old-crop, quoted from 4s. 2d. to 4s. 3d. per lb., spot; new-crop, 3s. 10d., c.i.f. Old-crop ovals are offered at 4s. per lb.

CAMPHOR.—Chinese tablets (¼-oz.) are offered at 10s. 9d. per lb., duty paid; refined powder (B.P.) is quoted at 10s., with B.B. grade at 9s. 6d.; crude powder, 7s. 6d.; synthetic powder (B.P.), 7s. 6d. per lb. The market has been inactive.

CANTHARIDES.—Chinese, spot, offered at 10s., duty paid; 6s. 3d. per lb., c.i.f.

CAPRICUMS.—East African on the spot, 85s. to 140s. per cwt., as to quality.

CARDAMOMS.—Quiet. Mangalore Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds No. 1 are quoted at 8s. 6d. per lb. Aleppy greens, 6s. 3d.; extra bold, 7s.

CASCARA SAGRADA.—Quiet. 1947 peel is quoted at 265s. to 275s. per cwt., according to holder; 1946 is at 270s. to 275s. New-crop, July-August shipment, is offering in the U.S. at 202s. per cwt., c.i.f.

COLCHICUM.—Corms, on the spot, are offered at 7s. 6d. to 8s. 6d. per lb. No seeds available.

COLOCYNTH.—Fine-white pulp, spot, is offered at 1s. 7d. per lb.

DRAGONS BLOOD.—Singapore reboiled No. 1 is at £70 per cwt., spot; second-grade material is available at £50.

ELEM.—Manila No. 1 is offered at 2s. 3d. per lb., on the spot.

ERGOT.—Portuguese is offered at 4s. 3d. to 4s. 4½d. per lb., spot; 3s. 10d., c.i.f.

FRANGULA BARK.—Steady. Quills are offering on the spot at 2s. 2d. per lb.

GAMBOGE.—Siam pipe on the spot is offered at £55 per cwt., duty paid.

GENTIAN.—French natural on the spot is offering at 75s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 110s. per cwt., spot; No. 2, 97s. 6d. to 100s.; No. 3, 92s. 6d.; new-crop No. 3, April-May, 90s., c.i.f. Sierra Leone is offered at 60s.; new-crop, May-June shipment, 55s., c.i.f.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUARANA SEED.—Fine powder on spot is quoted at 5s. per lb.

GUM ACACIA.—Kordofan cleaned sorts, quoted 66s. per cwt., spot London; April shipment, 60s., c.i.f. Bleached No. 1, quoted at 140s., ex store. Talha, cleaned, 40s. per cwt., ex warehouse; 35s., c.i.f.

GUM KINO.—Indian spot, 9s. per lb.

GUM MASTIC.—No. 2 on the spot is offering at 14s. 3d. per lb.

HENBANE.—B.P. is quoted at 4s. 6d. per lb., spot. Egyptian (*H. muticus*) is offered at 105s. per cwt., spot; 80s., c.i.f.

HENNA.—Egyptian is offered at 125s. to 145s. per cwt., on the spot; Indian, 100s.

IPECACUANHA.—Nicaraguan is offered at 27s. per lb., spot; April-May shipment, 22s. 6d., c.i.f.; Colombian root, 25s., spot, and 21s. per lb., c.i.f.

LIQUORICE.—Anatolian natural root is offered at 52s. 6d. per cwt., spot. Syrian natural is steady at 49s. 6d. per cwt. on the spot. Italian block, 375s. per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade. Turkish block is steady at around 240s. per cwt.

LYCOPodium.—Russian sifted is offered at 12s. 6d. per lb., spot; Indian, 12s.

MACE.—West-Indian blade, on the spot, is quoted at 7s. 3d. per lb.; pickings, 4s. 6d. to 5s. 6d., according to quality.

MENTHOL.—Brazilian on the spot is offered at 39s. to 43s. per lb., duty paid, according to seller; in bond, 38s. quoted.

MERCURY.—Spot, £16 per flask, ex warehouse; for shipment, £15 8s., c.i.f. U.K.

MYRRH.—Aden sorts is quoted from £14 per cwt.; siftings, £8 to £10 per cwt., spot.

PAPAIN.—Easier. East African No. 1 is offering at 27s. per lb. on the spot; Ceylon, 22s.

RHUBARB.—Steady. Chinese rough-round on the spot is quoted from 4s. 6d. to 5s. for sound root of good fracture, with 2s. 6d. to 3s. 6d. per lb. quoted for lower grade wormy material.

SEEDS.—The forward prices for Indian seeds are much higher, but, as very little business is passing on spot, buyers are not inclined to pay the new prices. **ANISE.**—Cyprus, 1s. 8d. per lb.; Turkish, 1s. 7½d. per lb., duty paid, spot London or Liverpool. **CARAWAY.**—Dutch, on spot, quoted at 11d. to 11½d. per lb., duty paid in London, and 11½d. per lb. in Liverpool. **CELERY.**—Indian is offered at 1s. 3½d. per lb., spot London or Liverpool. **CORRANDER.**—Argentine, spot London, is offered at 45s. per cwt., duty paid; split seed is quoted 36s. to 37s. 6d. per cwt., duty paid; Morocco old-crop is offered from origin at 55s. per cwt., f.o.b. Casablanca. **CUMIN.**—Indian quoted at 217s. 6d. per cwt., ex

wharf London or Liverpool; Cyprus, offered at 217s. 6d. per cwt., in London, but there are no buyers. DILL.—Indian; spot London, is 47s. 6d. per cwt. value, and in Liverpool, 45s. per cwt. FENNEL.—No interest is shown in Indian which is quoted 72s. 6d. per cwt. spot London, and 71s. in Liverpool. FENUGREEK.—Indian, on spot in London, is 47s. 6d. per cwt., and 45s. per cwt. in Liverpool.

SENEGA.—Little interest shown. Spot is offered at from 11s. 3d. to 11s. 6d. per lb.

SENNA.—Tinnevely leaves on the spot, offered as follows: No. 1, 9d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 6d.; No. 4, 5½d. to 6d. Tinnevely pods, handpicked, 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb. Alexandrian leaves, 1s. 2d. per lb. quoted for f.a.q.

SHELLAC.—Spot quotations, ex warehouse, are as follows: F.O.T.N., pure, 335s.; Standard No. 1, 340s.; fine orange, 350s. to 390s. per cwt.

SQUILL.—Italian white is quoted at 67s. 6d. per cwt., spot; Italian red, 84s.

STRAMONIUM.—Hungarian, on the spot, is offered at 115s. per cwt.; Indian, 60s.

STROPHANTHUS.—100 per cent. Kombé is offered at 12s. 6d. per lb., spot.

STRAX.—Supplies in Liverpool are offered at 7s. 9d. per lb., duty paid.

TAMARINDS.—Barbados is quoted at 52s. 6d. per cwt., duty paid.

TONKA BEANS.—Quiet. Frosted Pará is quoted at 5s. per lb., spot.

TRAGACANTH.—Steady. Selected white ribbon on the spot is offered at £110 per cwt.; other white grades, from £60 to £100; pale leaf, £35 to £52; amber, £23 to £33; red, £13 to £17; hoggy, £6 to £10.

TURMERIC.—Madras finger is nominal at 120s. per cwt., spot; shipment prices are rising, 92s. 6d. to 97s. 6d., c.i.f., has been quoted.

UVÆ URSI.—Spot, 1s. per lb.

VALERIAN.—Belgian root is at 175s. to 180s. per cwt., according to holder; Indian, 160s. per cwt.

WAXES.—Dar-es-Salaam BEES', on spot, is offering at 385s. per cwt.; Lindi, 375s., nominal. Benguela is quoted at 375s., duty paid; shipment, 315s., c.i.f. CANDELLILA.—Steady at 400s. per cwt., spot, and 375s., c.i.f., for April-May shipment. CARNAUBA.—Fatty grey on spot, 490s. per cwt.; shipment, 440s., c.i.f. Prime yellow, spot, 850s. per cwt.; shipment, 740s., c.i.f. MONTAN.—Steady. Reibek is offering at 330s. per cwt., spot; Czechoslovak crude, 300s. OURICURI.—6 per cent., on spot, 375s. per cwt. 1 per cent., spot, 435s.; shipment, 420s., c.i.f. 2 per cent., spot, 430s.; 410s., c.i.f. 5 per cent., 370s., c.i.f. SPERMACEITI.—Spot quotation is at 4s. 2d. per lb.

Essential and Expressed Oils

ALMOND.—Sweet oil (B.P.) is offered at 9s. 6d. to 10s. per lb. Bitter essential oil is quoted from 30s. to 55s. per lb., according to quality ad seller.

ANISE.—Chinese star, on the spot, in drums is offered at 6s. per lb., 5s. 6d., c.i.f.; and in tins at 6s. 1½d., spot, with up to 7s. for smalls; shipment, 5s. 8d., c.i.f.

APRICOT KERNEL.—Small supplies on the spot are quoted at 9s. to 10s. per lb.

BAY.—West Indian is steady at 7s. to 8s. 6d. per lb., spot.

CADE.—Prices are from 3s. 9d. to 5s. per lb., according to holder and quantity.

CAMPHOR.—White oil on the spot is offered at 3s. per lb., duty paid.

CANANGA.—Java oil, spot, is quoted from 35s. to 40s. per lb., 29s., c.i.f.

CARAWAY.—English-distilled is offered at from 38s. to 40s. per lb.; imported oil is quoted at from 30s. to 32s. 6d.

CASSIA.—Spot quotations are from 16s. 6d. to 17s. per lb., as to quantity.

CASTOR.—Controlled prices are unchanged: Firsts, £180 per ton; seconds, £176, naked ex works.

CINNAMON.—Ceylon bark oil is available at 12s. 6d. per oz.; English-distilled, from 24s. to 40s. per oz.; B.P. oil is at 75s. to 85s. per lb. Leaf oil, spot, is quoted at from 8s. to 10s. per lb.

CITRONELLA.—Ceylon in drums is offered at 3s. 9d. to 4s. 3d. per lb., spot; shipment, 3s. 3d., c.i.f. Java is quoted at 10s. to 12s. per lb. on the spot; 8s. 3d. in bond; shipment, 7s. 6d., c.i.f.

EUCALYPTUS.—70-75 per cent. (B.P.) is offering at 4s. 9d. per lb. for drums, and up to 6s. 6d. for smaller quantities; shipment, 3s. 8d., c.i.f.

JUNIPER BERRY.—Imported oil is offered at from 25s. to 30s. per lb.; English distilled (B.P.C.) is quoted from 35s. per lb.

LEMONGRASS.—Spot supplies are offered at 6s. 9d. to 7s. 6d. per lb., according to holder and quantity; forward, 6s., c.i.f.

LIME.—West Indian is maintained at from 27s. 6d. to 30s. per lb., according to holder and quantity.

PALMAROSA.—Spot is worth 35s.; shipment, 29s., c.i.f.

PATCHOULI.—Spot quotations are from 50s. to 60s. per lb. for Seychelles and 65s. to 70s. per lb. for Singapore.

SASSAFRAS.—Supplies on the spot are offering at 6s. 6d. to 7s. 6d. per lb.

THYME.—Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

VETIVERT.—Java is quoted at 135s. per lb., on the spot; Bourbon, 125s. to 145s.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

TRADE MARKS

(From "The Trade Marks Journal," March 17)

"AQUA MANDA"; for non-medicated toilet preparations, cosmetics, perfumes and soap (3). By Goya, Ltd., 161 New Bond Street, London, W.1. 656,788 (Associated).

"ORIFLAMME"; for perfumes (3). By Compo, Ltd., Crescent Road, Dukinfield, Cheshire. 657,004.

"GREMLIN" and silhouette of gremlin; for medicated tablets for analgesic purposes (5). By George Wright Taylor, 40 Duncombe Street, Walkley, Sheffield. 651,788 (Associated).

"VERDANOX"; for fungicides (5). By Shell Chemicals, Ltd., 112 Strand, London, W.C.2. 653,007.

Label device including an Irish scene; for medicated preparations for use in the treatment of coughs (5). By Robert John Wright, 22 Albert Road Carrickfergus, Antrim, Northern Ireland. 646,125.

"VESOREN"; for all goods (5). By Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Sheepscar Street South, Leeds. B653,220.

"EUBINE-KOEHLI"; for pharmaceutical products (5). By Roger Abel Lepice, 18 Rue de Ménilmontant, Paris. 654,639.

"SAN-SHIELD" and device of shield, including the letters "S.S." (letters "S.S." disclaimed); for menstruation appliances and menstruation underclothes (5). By Modern Hygiene, Ltd., 10 Clarence Road, Windsor, Berks. B655,317.

"UROLECTIN"; for pharmaceutical preparations for use in the diagnosis of diseases and disorders of the urinary system (5). By British Schering, Ltd., 167 Great Portland Street, London, W.1. 655,615.

"HEPVISC"; for medicinal preparations for human use in the treatment of hypertension (5). By Anglo-French Drug Co., Ltd., 11 Guilford Street, London, W.C.1. 656,186.

"SCABOLEX"; for pharmaceutical preparations for use in the treatment of diseases of the skin (5). By May & Baker, Ltd., Dagenham, Essex. 656,197.

"GORNIDERMA"; for medicated preparations for the treatment of the scalp (5). By Gorney, Ltd., 35 Northumberland Street, Manchester, 7. 656,537 (Associated).

"ERIDHU"; for medicated preparations for the treatment of lumbago and similar ailments (5). By Medicinal Peat Products, 39 Burnham Road, Glasgow, W.4. 656,571.

"MAMMY"; for teats for babies' feeding bottles (10). By Portland Plastics, Ltd., 6 Victoria Street, London, S.W.1. 655,599.

"MOTRID"; for moth repelling and destroying preparations (5). By Thompson & Capper Wholesale, Ltd., Speke Hall Road, Liverpool, 19. 656,803.

"SIRINIC"; for hypodermic syringes (10). By George Emerys Jones, Hillingdon, Mangrove, Herts. 666,297 (Associated).

APPLICATIONS AMENDED AFTER ADVERTISEMENT

Name of the Applicants of Trade Mark No. 650,809 by Imperial Chemical Industries, Ltd., has been altered so as to read: "Imperial Chemical (Pharmaceuticals), Ltd."

Specification No. 653,716 by Hirst, Brooke & Hirst, Ltd., should be altered so as to read:

"All goods included in Class 5, but not including insect-destroying and insect-repelling preparations."

(From "The Trade Marks Journal," March 24)

"LUSTRITE" in distinctive lettering; for non-medicated toilet preparations and cosmetics, not including preparations for the hair (3). By Lustrite Cosmetics, Inc., 475 Fifth Avenue, New York, U.S.A. 647,814.

"GRANDE EPOQUE"; for non-medicated toilet preparations, perfumes and soap, not including creams (3). By Société d'Etudes et d'Expansion de la Parfumerie de Luxe, 20 rue de la Paix, Paris, France. 649,795.

"RAMVALE"; for non-medicated toilet preparations, cosmetics and perfumes (3); for pharmaceutical and sanitary preparations and substances (5). By Ramsons Valentine & Co., Ltd., 8 Congreve Street, London, S.E.17. 652,316-17 (Associated).

"CLAUDE AMELIN" in distinctive lettering; for non-medicated toilet preparations and cosmetics (3). By Claude Amelin Beauty Preparations, Ltd., Coronation Works, Kangley Bridge Road, London, S.E.26. B652,474.

"LANCÔME"; for non-medicated toilet preparations, cosmetics, perfumes and soap; "NUTRIX"; for non-medicated face creams (3). By Lancome, S.A., 29 Faubourg Saint-Honoré, Paris, France. 655,072 and 655,075.

"ORGUEIL"; for non-medicated toilet preparations and cosmetics (3). By Parfums Lucien Lelong, 13 Rue Alphonse-de-Neuville, Paris, France. B655,119.

"MOYAN"; for non-medicated toilet preparations for the hair and skin (3). By B. G. Heavers & Co. (Bristol), Ltd., 6 St. James' Square, Bristol, 2. 655,680.

"BENLOW"; for cosmetic powder boxes (3). By Benlow, Ltd., 23 Old Burlington Street, London, W.1. B655,919.

"DENYSIA"; for non-medicated perfumes, toilet preparations, cosmetics, hair-waving sachets, soap and essential oils (3). By Dennis & Co., 12 Pembridge Road, London, W.11. 656,255.

"HIGHLAND MISTS"; for perfumes (3). By Elgin Products Co., South College Street, Elgin, Scotland. 656,886.

"TABARIN"; for soaps, perfumes, non-medicated toilet preparations and cosmetics (3). By Jean Sorelle, Ltd., 21 Turle Road, London, N.4. 656,928.

"SILENCE"; for non-medicated toilet preparations, cosmetics, soaps, perfumes and essential oils. By James Scott St. Barbe Baker, 41 Boleyn Road, London, N.16. 657,076.

"RUBY" (device of dog's head disclaimed); for medicines for distemper and worms in dogs and puppies (5). By R. E. Nicholas (Romsey), Ltd., 42 Hampstead Road, London, N.W.1. B649,110-13 (Associated).

"CIBA P.B.Z." in distinctive lettering (letters "P.B.Z." disclaimed); for pharmaceutical preparations and substances (5). By Ciba, Ltd., 141 Klybeckstrasse, Basle, Switzerland. 656,309 (Associated).

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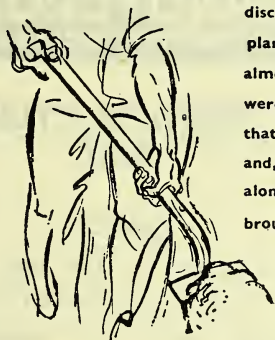
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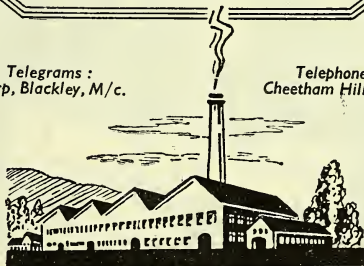
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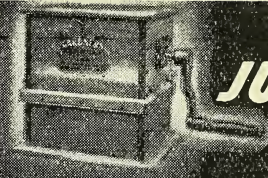
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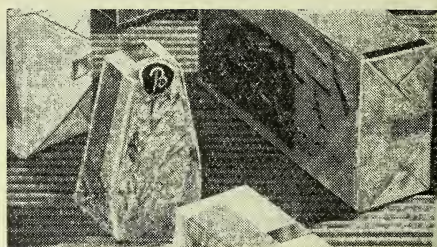
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LAMBETH & Co. (LIVERPOOL) Ltd
Greenock Street,
LIVERPOOL, 3



GLASSWORKERS' STRAIN-VIEWING POLARISCOPE

Full wave retardation analyser for 5800 Å. gives most sensitive colour indication of strain. Field and sight aperture $1\frac{1}{2}$ " dia. Dimensions $6\frac{1}{2}$ " $\times$ $5\frac{1}{2}$ " $\times$ 5". Price £11. 6. 6

As above but without colour analyser showing strains against black field. Price £4. 15. 0

**Immediate
Delivery**

H. S. B. MEAKIN LTD, 36, Victoria St., S.W. 1
SUPPLIERS OF POLAROID Tel.: Abbey 6713

**ANGLIAN
SURGICAL
DRESSINGS**



**SANITARY
TOWELS**

NORVEX

SPECIAL OFFER

**FIRST AID CASE IN HEAVY BLACK METAL
FOR UNDER 50 PERSONS 16/6 ea.**

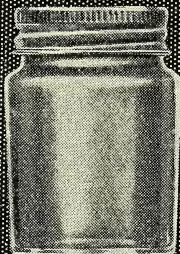
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PHONE
20954

"National" Service



WHITE FLINT GLASS CONTAINERS
OF EXCELLENT QUALITY BACKED UP
BY FIRST CLASS SERVICE



WHOLESALE ONLY

Restrictions outside our control may not allow us to meet every requirement

NATIONAL GLASS WORKS (YORK) LTD.

WORKS: FISHERGATE, YORKS.

LONDON OFFICE: 105 HATTON GARDEN, E.C.1

Telephone: York 3021

Trade  Mark

Telephone: Holborn 2146

ON THE OCCASION OF
OUR ENTRY INTO THE
PHARMACEUTICAL
PREPARATIONS MARKET
WE HAVE ONLY ONE
PRODUCT, BUT IT IS A
GOOD ONE . . .

UNEMUL

*Insect Repellent
Cream* (Active agent
Dimethyl Phthalate)

Retail: 2/- per jar (incl. P. Tax).

Cost: 1/-, plus 4d. P. Tax.

Minimum quantities: 3-doz. lots for
direct orders. Prompt delivery, direct,
or through your usual wholesaler.

Trade terms on application;

Universal Emulsifiers Ltd.

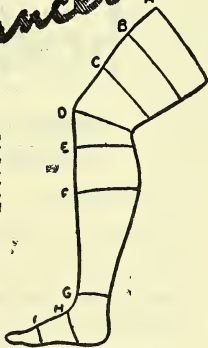
INVICTA WORKS . EAST MALLING

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HEWARDS Surgical Appliances

Particulars of Elastic
Hosiery and of other
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extensive and compre-
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Hewards will be gladly
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a postcard.

ORDER THROUGH
YOUR
WHOLESALE



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TWICKENHAM

Phone: 1
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Grams:
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IT'S THE BEST
TAMPON
VALUE
ON THE MARKET!

ITS
QUICK SALES
MEAN
QUICK PROFITS!



IT'S WELL ADVERTISED
-AND **DISPLAY**
MATERIAL WILL BE
AVAILABLE SOON!

it's
holly-Pax
FROM HOLLYWOOD

MODERN INSERTION TYPE
SANITARY PROTECTION

★ Holly-pax appeals to women because of its excellent value—quite apart from its great advantages and amazing compactness. It's equally attractive to stockists because it sells quickly, meaning quick profits.

Sole Distributors :

FASSETT & JOHNSON LTD.

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SOFT
SOFTER

SOFTEX
Inter-leaved
TOILET TISSUE



Extra thin,
pure strong quality
Softex Toilet Rolls
also available

SMT 10 Awarded the Certificate of Hygiene
A SWAN MILL PRODUCT, LONDON, W.1

*Peter Brent
& Co. Ltd.*

BOTTLES for
PERFUME, MEDICAL PRODUCTS,
TOILET PREPARATIONS

JARS for
FACE CREAM, HAIR CREAM,
BATH SALTS

Enquiries invited
Lists and prices on Request
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NOW AVAILABLE
6OZ. HAIRCREAM JAR

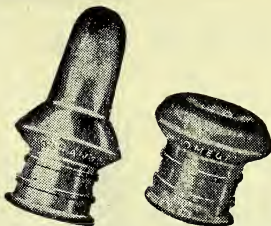
The
"Omega"

TEAT & VALVE

REG. NOS. 841964, 841968

This Trade Mark
guarantees the quality

Ingram's
LONDON.



PATA

Made by a special process which
gives long life and produces a Teat
with a perfect flow. The shape
ensures a tight grip of the bottle.

J.G. INGRAM & SON, LTD.

The London India Rubber Works, HACKNEY WICK, E.9.



SURGICAL DRESSINGS

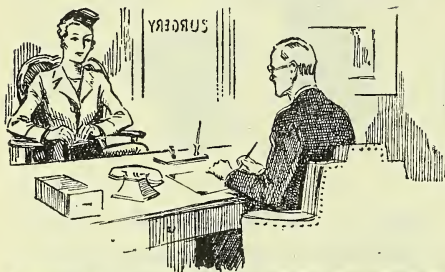
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CARUS

OF DARWEN

HODDLES DEN MILL • ATLANTIC MILL • HAMPDEN MILL • SPOTLAND BRIDGE MILL

PLANNED PARENTHOOD



1. Spermicidally efficient and clean in application.
2. Non-irritant and harmless to health.
3. Does not upset the vaginal pH value.
4. Free from fatty substances.
5. Keeps perfectly in tropical climates.
6. Prescribed extensively by the Medical Profession.

GYNOMIN

TRADE MARK Reg. No. UK 509102

*The Scientifically balanced
antiseptic and deodorant contraceptive.*

RETAILS AT
3/6
PER TUBE
OF 12 TABLETS

KEEP ADEQUATE STOCKS
OBTAINABLE THROUGH YOUR WHOLESALE
ETHICAL LITERATURE AND DISPLAY MATERIAL

OUR PUBLICITY
WILL BRING NEW
CUSTOMERS TO
YOUR PHARMACY

COATES & COOPER LTD., NORTHWOOD, MIDDLESEX, ENGLAND

sun glasses
for the
HOME TRADE & EXPORT

ENQUIRIES
invited by
WHOLESALE ONLY

FLENOVAK LIMITED

Manufacturing Opticians

FULWOOD HOUSE, FULWOOD PLACE,
HIGH HOLBORN, LONDON, W.C.1

Telephone: HOLborn 8308
Telegrams: Flenovak Holb London
Cables: Flenovak London

BOTTLES

and

JARS

for

Sale

★ 1 dram, 2 dram and 4 dram PERFUME BOTTLES
★ 3 dram NAIL VARNISH BOTTLES
★ 1-oz. and 2-oz. FANCY BOTTLES (All the above with Plastic Screw Caps)
★ 1-oz. and 2-oz. SQUAT JARS with Enamelled Metal Screw Caps
★ 42 m.m. ALUMINIUM CONTAINERS, Blue and Pink Enamelled; Screw on Lids
★ 40 m.m. ALUMINIUM CONTAINERS, complete with godets (for Block Rouge)
★ MASCARA BRUSHES
★ NAIL VARNISH BRUSHES

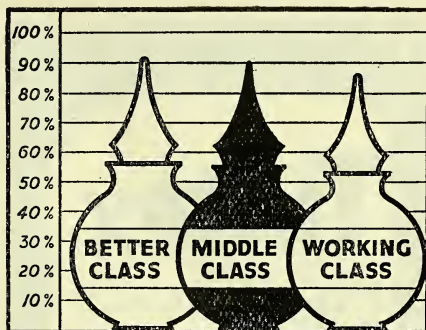
If you require any of the above, kindly let us have your enquiries by return, stating quantities wanted, and we will send you samples, prices and full particulars. We shall also be glad if you will indicate to us your requirements of any other kinds of Bottles and Jars, etc.

RELIANCE TRADING COMPANY
13 New College Parade, Finchley Rd., London, N.W.3

*In every class of trade
in every part of the land
Chemists say:*

“CUSTOMERS WANT ELASTOPLAST”

Chemists will be interested in these results of a trade survey recently carried out for Elastoplast: 87.3% of chemists with working-class trade, 90.4% with middle-class trade and 91.4% with better class trade *agreed* that the majority of customers ask for and want Elastoplast. *The figures are almost equal in all three main classes of customers.* The same applied and in similar proportions, when the figures were examined regionally. The extra value of Elastoplast dressings is a quality that



customers of all classes appreciate. The supply position has been improved by the introduction of the New Waterproof Elastoplast dressings.

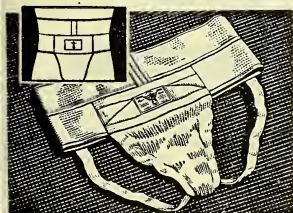


LITESOME GOES AHEAD!

A million men know that Litesome “on top of the world” feeling. Those original features of the Litesome Supporter, knitted into the material itself, giving that vital stitch by stitch support. That bracing uplift at “points of strain” belongs to the Litesome alone! **The Litesome—known and asked for by name—is tops in Supporters.** Supported by strong national press advertising, enjoying full dealer confidence — that’s why Litesome sales forge ahead.



- **STANDARD MODEL** Retails at 7/6d. 2 Sizes 28-34", 34-40" Waist
- **MAYFAIR MODEL** Retails at 16/9d. 3 Sizes 28-33", 33-39", 39-45" Waist



On top of the World
LITESOME
SUPPORTER

FRED HURTLEY LTD. KEIGHLEY, YORKS.

Agent for Eire P. A. Coleman, M.P.S.I., 302 Lower Kinnage Road, DUBLIN



Tintex

**THE WORLD'S
LARGEST-SELLING
HOME DYE**

CHEMISTS' AGENTS:—
Thos. Christy & Co., Ltd.
Farnham, Surrey.



It's no gamble to stock

TOWN TALK

—the Silver Polish which ensures regular customers, to whom your other wares will also appeal

ORDER DIRECT OR FROM

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THE TOWN TALK POLISH CO. Manchester, 10

TABLET TUBES

HOME & EXPORT BUYERS SUPPLIED

ENQUIRIES TO
GLASS CONTAINER CO.
21 HAYES LANE · KENLEY · SURREY
Telephone: UPLANDS 8119
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"RODINE"

RAPID RAT REMOVER

Always in demand!
T. HARLEY LTD., PERTH, SCOTLAND

KLEENKIL

DDT FLY & MOTH PAPERS 3'

Samples and Prices from
THE KLEENKIL COMPANY
23 Manor Avenue, Northolt, Middx. BYRon 2918

PARAGON RAZOR BLADES



No. 4. ACORN



No. 2. SINGLE EDGE



No. 3. STROPPING

SOLE MANUFACTURERS—

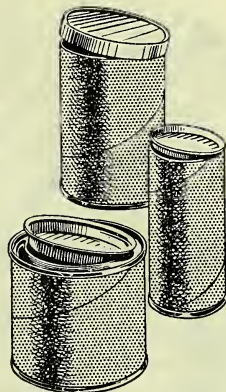
THE PARAGON RAZOR CO.
NURSERY WORKS, ELDON STREET, SHEFFIELD, 1

Composite Canisters

—with slip and lever lids or sunk-in tops, plain or waxed inside, labelled to customers' requirements. Enquiries are invited for early delivery. If you are interested in tin boxes or aluminium containers please write and ask for our Leaflet No. 51.

Available for early delivery

6oz. machine-made Medical Flat Bottles, W/F, S/N, complete with white aluminium caps fitted ceresine faced wads. Price 26/- per gross, carriage paid anywhere in U.K. Minimum 50 gross lots. Crates chargeable and returnable



PERCENTA HOUSE, 130/2 TOOLEY STREET, LONDON, S.E.1
Phone: HOP 0516 (6 lines)

HATCHWELL

MIRACLE

MIXTURE has saved the
lives of hundreds of dogs

★ The
Sensible
Chemist
knows that
Pet owners
are worth
catering for

Supplies the finest remedies, well advertised, and show more profit than any other similar lines. We do not advertise our Wholesale Prices. You must write to us if you are interested

THE HATCHWELL COMPANY LTD.
BYRON STREET, PRESTON, LANCASHIRE

North-East
Pharmacists
send
Your Enquiries to

MIDDLETON
& CO. LTD. Boundary Rd.,
MIDDLESBROUGH

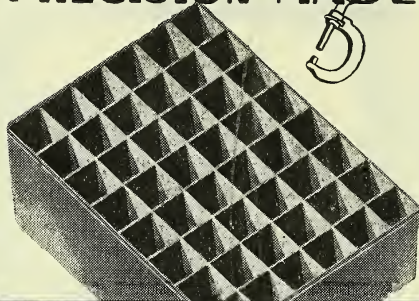
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SPEEDY
DELIVERY
IN OUR
OWN VANS
WHEREVER
POSSIBLE

Wholesale only

DRUGS,
GALLENICALS,
PILLS and TABLETS,
ANALYTICAL
CHEMICALS and
REAGENTS



PRECISION MADE**PARTITIONS****AND CARTONS
FOR ALL PURPOSES****J. DRING LTD**

Sales Office: 34 HARLEY ST. PORTSMOUTH

LIQUINURE
LIQUID MANURE

The Pioneer Brand, nationally advertised. Make sure to have sufficient stock for Spring and Summer demand. 3/- per bottle (3 types) from your Wholesaler, or

LIQUINURE SALES
Durham Rd., Elstree, Herts.

A DELICATE SUBJECT — FOR DELICATE SKINS*The* **TOTTY-POT**

Trade
Mark
"Totty
Pot"
Patent-
applied for

*Rubber Ringed for
— Cushion Comfort*

**A NON-CORROSIVE ACID-PROOF
HYGIENIC CHILD'S CHAMBER**Detachable ring, easily removed for
cleaning purposes**Made of Aluminium****ANODISED IN SOFT PASTEL SHADE**

SOLE MANUFACTURERS

J. BILLIG & SONS LTD.,

ESTABLISHED 1899

BILTIN WORKS, FONTHILL RD LONDON N.4.

TELEPHONE: ARCHWAY 2753 & 3858

LABELS OF DISTINCTION

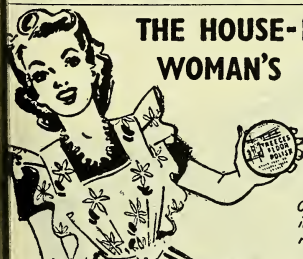
For Wholesale Manufacturing
& Retail Chemists

MEDICAL and DISPENSING
LABELS, TOILET, COSMETIC and
PERFUME, largest range of STOCK
LABELS (attractive two-colour 50-
60 wordings), SHAMPOO POWDER
ENVELOPES and INNERS, also
SACCHARINE TABLET ENVEL-
OPES, with name and address. We
can also offer multi-coloured advertis-
ing stamps in exclusive designs.

Send for our
extensive sample
range

CARILLON PRESS LTD

Artists in the Production of Fine Labels
BOURNEMOUTH



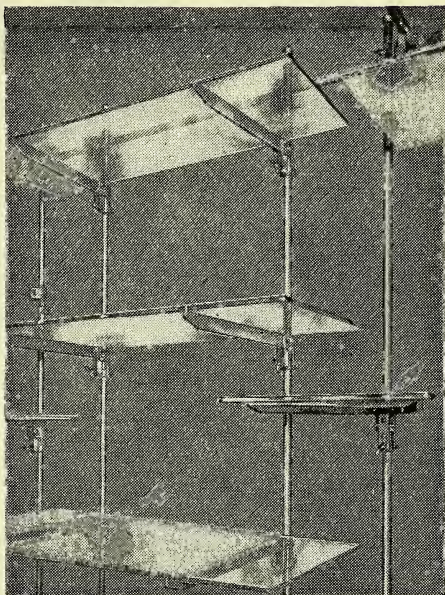
**THE HOUSE-PROUD
WOMAN'S CHOICE**

Once used it sells
itself. . . 45 years
reputation for
high quality



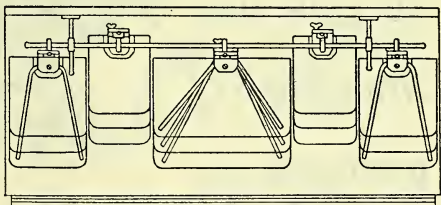
All Leading Wholesalers Stock it

TREECE POLISH Co. Ltd., NOTTINGHAM



● rod dressing

(new and patented) by Potters (London) Ltd., will greatly improve the appearance of your windows and provide a wide variety of window dressing schemes. Solve your window problems once and for all. Write for full particulars and **FREE** Rod Dressing Plan, stating length, breadth, and height of your window.



POTTERS

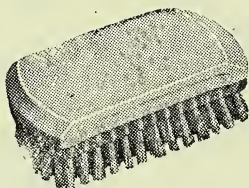
(LONDON) LIMITED

No connection with Wm. Potter & Son, Ltd., formerly
of 160 Aldersgate Street, E.C.1.

**97/99 ST. JOHN STREET, CLERKENWELL,
LONDON, E.C.1**

Tel.: CLERKENWELL 2171

New Neolite Models



Neolite Gent's Hairbrush

A man's brush of distinction in ivory finish. A style appealing strongly to all ages. Retail, inc. tax, plain top, 20/-; Fluted top, 25/-.



Neolite Bath Brush

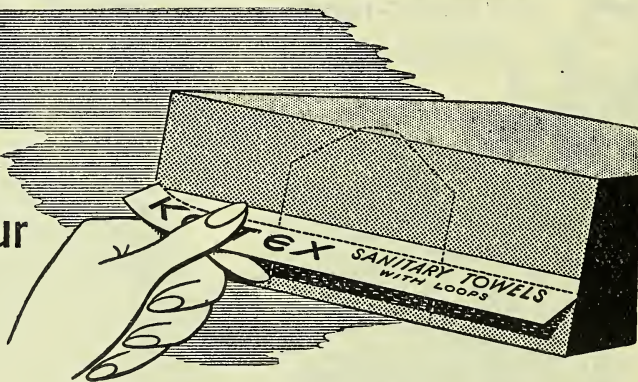
A fascinating and graceful new design. The long handle is specially curved for added ease in use. The head can be detached to serve a dual purpose. A beautiful accessory for the modern bathroom. Retail 21/- inc. tax, Available in the following shades

Crystal with Opal, Pink, Cream, Yellow, Green, Blue, Peach, Turquoise, Amber, Ruby Red, Black, also clear designs.

Visit Stand D.8. Olympia B.I.F.

UNIVERSAL BRUSH CO. LTD. LUTON

**To save your
wrapping
problems . . .**



. . . . tear off perforated strip

For your convenience, Kotex has decided to revert temporarily to the plain pack with "tear-off" strip. Simply remove the strip and the plain pack is ready. Limited quantities are available for the wholesale trade.

KOTEX SANITARY TOWELS
WITH LOOPS

Now 1/9d. per Box (C.P.R.C. Approved)

Cellucotton Products Ltd., 33/34 Aylmer Parade,
London, N.2.

"Soam" for Foam

THE *New* SOAPLESS
**TOILET
AND BATH
Tablet**



No Coupons

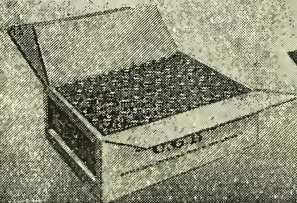
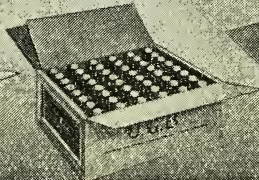
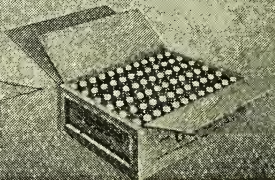
M.O.F. LICENCE NO 1842
S.R.O. 1943/638
PATENT APPLIED FOR

RETAIL PRICE **1'1^p** INC. TAX

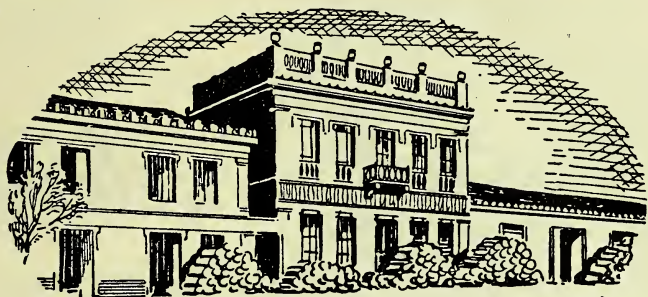
SOLE DISTRIBUTORS

ANDERSON & REEVES LTD.

Telephone: REGENT 1061/10 lines. 157-161 REGENT ST LONDON. W.1. Telegrams: TRYSTREGE PISCY London.

*The
Complete Service***WASHED AND
STERILIZED
READY FOR USE****CORK MOUTH****FITTED KORKALITE
MOULDED CAPS****FITTED ALUMINIUM
CAPS****UGB****UNITED GLASS BOTTLE
MANUFACTURERS LTD.****8 LEICESTER STREET, W.C.2**

Tel. GERRARD 8611 (15 Lines) Grams UNGLABOMAN, LESQUARE, LONDON



THE WAREHOUSE AT AEGINA (GREECE)

"RELIANCE"

SPONGES

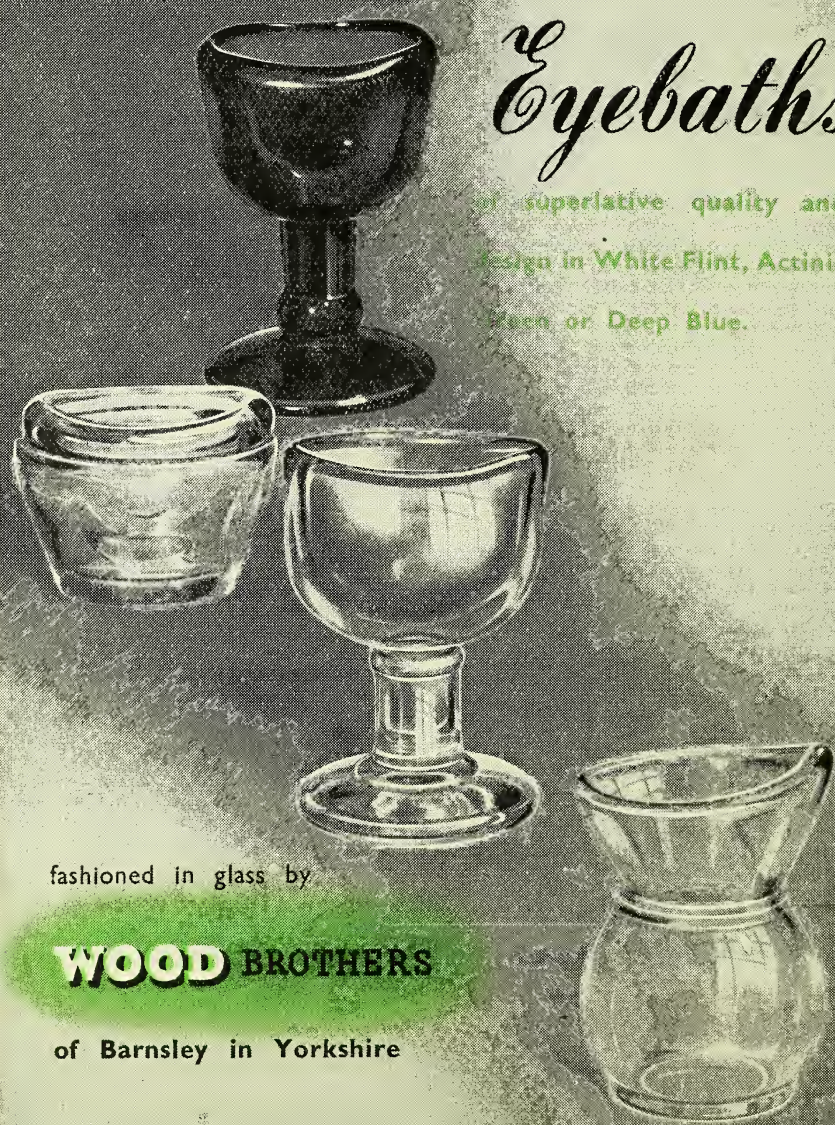
AND CHAMOIS LEATHERS

The illustration above is of one of the large warehouses on the Greek island of Aegina, where sponges from all the big fishing centres throughout the Mediterranean are collected, prepared and packed for distribution to the markets of the world. In our 100 years of steady progress we have maintained our reputation as the "right house" for Sponges and Chamois Leathers ("Reliance" Brand). Your enquiries will receive our courteous, prompt and knowledgeable attention.

*We have no connection with any other firm advertising
Sponges or Chamois Leathers in this Journal.*

CRESSWELL BROS. & MARKS
(INTERNATIONAL SPONGE IMPORTERS LTD.)

5A BUCK STREET, CAMDEN TOWN, N.W.1
'PHONE: GULLIVER 5462-3. 'GRAMS: SPONGE, NORWEST, LONDON



Eyebaths

of superlative quality and
design in White Flint, Actinic
Green or Deep Blue.

fashioned in glass by

WOOD BROTHERS

of Barnsley in Yorkshire

Makers of fine glassware since the year 1828

Paragon

NON TIP NURSERY SET



The ideal gift set for baby . . . plate and mug made of heat-resisting perspex in pleasing pastel tints, with hand-painted decorations of favourite nursery characters.

Designed for toddlers, the feeding plate remains untippable before the most playful fingered infant, and the mug has sturdy bracket handles . . . so right for tiny hands. Sold in sets wrapped in cellophane or separately.

Manufacturers and Sole Distributors :

Write for details of our
trade terms.
Export enquiries invited

PARAGON
137-161 REGENT STREET
LONDON W-1

PHONE REG 1034 (40 LINES)



*The Brand
that rings
the bell!*



Keep your cash register busy this winter by showing the attractive "Autumn Sun" display card, linking up with "Autumn Sun" national advertising. These, plus "Edme" quality and "that butterscotch flavour," ring a bell with the public.

NATIONALLY ADVERTISED
Advertising in national Press
will appear throughout the
Season. FREE—handsome Jar-
holder display showcard in full
colour creates sales.

**EDME
Autumn Sun**
MALT AND OIL
Manufactured from finest ingredient
obtainable. Full particulars from :

EDME LIMITED · IMPERIAL HOUSE, REGENT ST, LONDON W.1.
TELEPHONE REGENT 5563-4



BABY MEANS BUSINESS

Where there are babies there will be a demand for soothers—a demand that continues all the year round. That's the sort of business you want.

Make sure of repeat orders by selling Grovewell soothers.

We'll tell you why:—

- 1 The teething ring is pliable plastic, kind to gums.
- 2 The disc is plastic, too, and gaily coloured.
- 3 The teat, made of transparent latex, is in normal or cherry shape and can be sterilized whenever necessary.
- 4 They are hygienically packed in cellophane envelopes, fixed on a showcard which will add distinction to your counter. Also offered in attractive 3-dozen display box.

GROVEWELL LTD

FEED TEATS, VALVES AND SOOTHERS
656 Forest Road, Walthamstow, London, E.17
Wholesale only supplied

The Original Chemist Seidlitz

G. O.

Lemon Flavoured and Sweetened

**SEIDLITZ
POWDERS**

4½d. Ordinary Strength — 6d. Extra Strong
7d. Double Strength

32/- 40/- 48/- per Gross
plus Purchase Tax



MILNER & COKE LTD

JOHN PENN STREET
LEWISHAM S.E.13

P.A.T.A.

Steady sales and good supplies

Extensive advertising of D.D.D. Balm — in the national provincial and periodical press and the women's journals — is a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of D.D.D. Balm are so steady. Supplies are now equal to demand — your wholesaler can deliver from stock.

D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.



TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.

D.D.D. BALM

D.D.D. COMPANY LTD.
3 FLEET LANE, LONDON, E.C.4

DISTRIBUTOR FOR NORTHERN IRELAND—MESSRS. J. & W. C. GAW, 30 BANKMORE ST, BELFAST
DISTRIBUTOR FOR EIRE—MESSRS. HENRY FINN & CO., LTD., CENTRAL HOTEL STOCKROOMS
EXCHEQUER STREET, DUBLIN

1/- PROFIT *for you* ON EVERY 3/10 SIZE CARTERS LITTLE LIVER PILLS

YOU'LL find no difficulty in selling the customer a large-size Carters—you have only to tell him he saves 10d. and gets 5 extra pills. Investigations show that one out of every three customers will buy the large-size Carters Little Liver Pills when it is offered. Supplies are readily available. Send your order now and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now!*
from THOMAS MARNS LTD., 2 Caxton Street, S.W.1

CHILBALM

Relieves Chilblains

MADE BY
CHEMISTS



SOLD ONLY BY
CHEMISTS

Camphor - phenol - benzoil
complex in a soft water-
miscible cream base.
1 oz. jar 1/6 inc. Tax.
Showing a minimum profit
of 5½d. per jar.



Sole Agents: MEGGESON & CO. LTD., CHESSINGTON, SURREY

Manufactured by:

CARLTON PHARMACEUTICAL INDUSTRIES LTD, LONDON, W.3.

A crying shame!

There are more fretful babies today,
because there is less Nurse Harvey's
available due to the bottle shortage.
Let us know if you are not getting
your fair share.

*Baby's
next
best
friend..*

O. SCRUTON
& CO. LTD.,
BARKER LANE
YORK

NURSE
HARVEY'S
MIXTURE



That second look...

the discerning modern woman's re-
ward for taking that little extra care
to obtain Silver Cloud cosmetics
—suitable for every occasion.

★ Lipstick in seven shades, Foundation
Cream, Complexion Powder, Rouge
Cream, Cleansing Milk, Skin Food,
Astringent Lotion, Hand Lotion,
Nail Varnish, Perfumes. Also Eau de
Cologne, Bath Salts, Brilliantine,
Talc., etc.

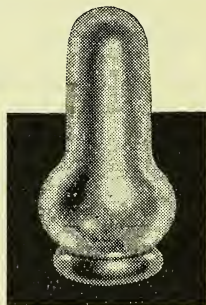
Your enquiries are invited.

Silver Cloud

C O S M E T I C S

Charles B. Wood Laboratories, Old Hill, Staffs.

GRIP-TIGHT FEED TEATS



USED BY HOSPITALS AND
WELFARE CLINICS
THROUGHOUT THE WORLD

LEWIS WOOLF LTD.

144, Oakfield Road, Selly Oak, Birmingham, 29

365 DAYS IN THE YEAR

IS YOUR SELLING SEASON FOR THIS LINE

Sensible people can easily see the advantage of dealing with colds before they catch them! So turn the very effective cold immunising qualities of PILLODINES to your advantage—keep your PILLODINE counter-displays to the forefront. You will find that the PILLODINE 30-day cold immunising treatment will sell nearly as well during the long sunny days as it does during the short dull ones!

Trade terms on request

B. I. F

May 3—14
Visit us at
OLYMPIA
STAND B. 11



Pillodines

WATFORD CHEMICAL CO. LTD

30 Baker Street, London, W.1 Tel: Welbeck 0264/8

Here is the NEW 'CALFOS' ADVERTISING

★
Generous Profit Margin



Advertising is now appearing in daily papers and women's journals. This is a logical development of over 10 years of ethical selling and clinical trials. It will stimulate the demand for this palatable, natural form of calcium and phosphorus. 'Calfos' is an attractively priced, repeat sale line with a generous profit margin. Enquiries to our representatives or to:—

CALFOS LTD., IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2

With prices 'pegged'

—examine your margins!

Now that selling prices are fixed and expenses still obstinately rising, lines showing a good margin gain an even greater importance.

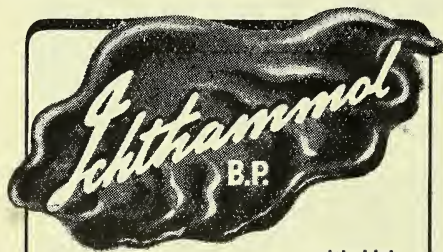
There is no better codeine-phenacetin-aspirin tablet than Kodeno.

And there is none which gives you a margin of 8½d. on a retail price of 1s. 10d. including Tax.

**Are you getting
your share?**

Write for Bonus
Display Terms.

CROSS & MAX LTD
17/18 Bishop's Court, Old Bailey,
LONDON, E.C.4.



with high
organically combined sulphur content.

Other Asmidar Specialities include:

GLUTONINE (Asmidar)

Strychnine Gluconate—Gives prolonged action with decreased toxicity. Boxes 8 x 1 c.c. ampoules 0.002, 0.0035, 0.005 gm.

ASMIDAR ANTI-RHEUMATIC Ointment

Non Greasy, Non Staining Analgesic
Size ½ oz. Tubes.

Also—Piperazine (Asmidar) and Sulphazol Cream (Asmidar). Literature and information gladly supplied on request.

ASMIDAR LTD
16 DOUGLAS STREET, LONDON, S.W.1
Telephone: VICTORIA 5556

BLAKEY'S MALTED OATMEAL

The food that **for over 50 years** has helped to build Britain's Bonniest Babies.

The ideal diet for nursing mothers & invalids.

11^p and **2/-**

BLAKEY'S FOOD CO. LTD., LINCOLN



SECOND TO NONE

Malt Extract Tablets

Sustaining sweet that dissolves in the mouth. Supplied in counter display boxes of 2 doz.

RETAIL (INC. TAX) **7 1/2** D. PER TIN

ANDERSON RICHARDS & CO. LTD.
37 Eastcheap, London, E.C.3.

AMALGAMATED RUBBER MOULDINGS LTD.

Manufacturers of all types of Rubber Component Parts

SPECIALISTS IN THE MANUFACTURE OF RUBBER BULBS

INQUIRIES INVITED

CANAL STREET, CHADDERTON
Near OLDHAM, LANCs.

Tel.: MAIN 5654

'ASPRO' ACCELERATES BUSINESS

"More display means more sales, means more bonus—and so the wheel turns"—that was one chemist's way of describing how the benefits start mounting up when you display 'ASPRO'. Displaying 'ASPRO', in fact, **ACCELERATES** business—**CREATES CUSTOM** for other lines, too, and so speeds-up turnover and increases profits. Give 'ASPRO' prominent display and you immediately get the full results of THE MOST ENTERPRISING AND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE COUNTRY. While well-tried methods of 'ASPRO' publicity are being sustained and expanded, every new method which proves of value is used to the full.

The result is that

'ASPRO' is selling to a GREAT POST WAR PUBLIC

Hundreds of thousands of speedway and football supporters are hearing the weekly 'ASPRO'

programme; millions of cinema-goers are seeing the 'ASPRO' film. Putting in the window a prominent reminder that YOU stock 'ASPRO' is the fastest way of making new and permanent customers.

Made by ASPRO LTD., Slough, Bucks

PATA

DŌ-DŌ*for* **ASTHMA****One Tablet is an
effective dose**NOW IN THREE SIZES:
1s 3d, 3s 9d & 13s 1½d INCL.**P.A.T.A.****INTERNATIONAL LABORATORIES LTD.**

1-3, SMEDLEY STREET, LONDON, S.W.8.

MACaulay 3481-3.

Telegrams : Parmintus, Clapcom London.

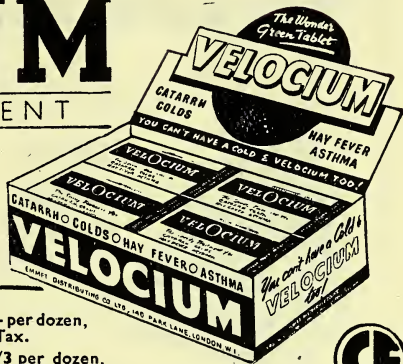
**J. Allen & Company**
Makers of fine Latex Goods :
RUBBER GLOVES · BABY PANTS
BOTTLE TEATS · SOOTHERS, etc.**J. ALLEN & COMPANY**
CORINTH HOUSE, BATH ROAD, CHELTENHAM**IT SELLS
ON SIGHT!**When your customers see this package of Feen-a-mint—the famous *original* chewing gum laxative—it sells on sight! It is smartly cellophane-wrapped and as display-worthy as ever! Order today, from your usual wholesaler.**Feen-a-mint****WHITE LABORATORIES LTD., MITCHAM, SURREY**

Seasonable demand . . rapid sales! . .

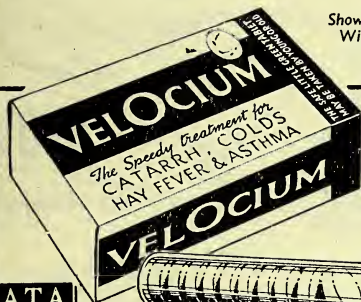
VELOCIU

THE SPEEDY TREATMENT

COLDS, CATARRH, HAY FEVER
and kindred ailments . . .



Showcards and
Window Bills
available



36 tablets 27/- per dozen,
plus Tax.
12 tablets 11/3 per dozen,
plus Tax.
Retail prices
3/9 and 1/7

Sole distributors

**EMMET DISTRIBUTING
COMPANY LIMITED**
140 Park Lane, London, W.1.
Tel.: MAYfair 6756

PATA
E.M.4.A.

AN ALL-BRITISH FIRM

*have pleasure
in announcing that:—*

BRONCHOVYDRIN

*is back on
the British Market.*

**This Inhalant for the Treatment
of Asthma is now Obtainable
from the**

Manufacturers and Sole Distributors:—
BRONCHOVYDRIN (1945) Ltd.
12 WESTWOOD ROAD, BARNES,
S.W.13

Femex REGD.

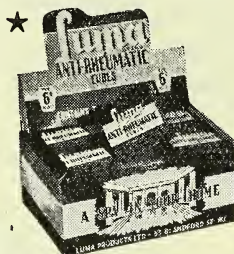
**SANITARY
TOWELS**

*for
Perfect Reliability
NON CHAFING
HIGHLY ABSORBENT
In various sizes*

WILFRED STRETCH & CO.
LIMITED
CASTLETON · ROCHDALE

MARSHALL'S PROPRIETARIES LTD.

*have Pleasure in Announcing
Additional NEW ★ Products*



LUMA CUBES

Luma Anti-Rheumatic Compound in handy form of 2 cube cartons 6½d. Display Outer 2 doz. carton 39/- per gross plus 13/- P.T.

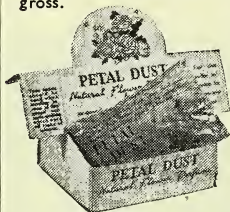
"ALL FABRIC" WASHER ★

The NEWEST and BEST of all Fabric Washers. Very economical. Selling 10½d. 96/- per gross.



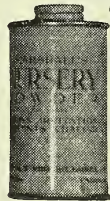
PETAL DUST

A Moth Preventer de-luxe. 44/- gross. Display Outers 1 doz. Retail at 6d.



LUMA ANTI-RHEUMATIC COMPOUND

A remarkable efficacious remedy for Rheumatic Conditions. Selling 4/- 26/- per dozen plus 8/8 P.T. Also in Small and Family size.



MARSHALL'S★ NURSERY POWDER (MEDICATED)

Packed in Sprinkler Tin. Selling 1/5½d. 114/- gross plus 38/- P.T.

MARSHALL'S PROPRIETARIES LTD.,
110, CANNON STREET, E.C.4

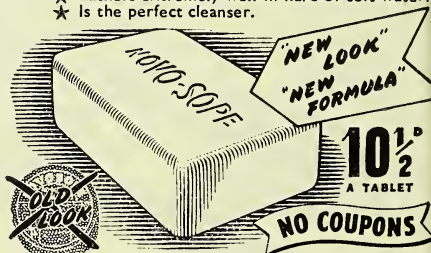
NOW GREATLY IMPROVED IN
QUALITY and PERFORMANCE!

NOVO-SOPE

HOUSEHOLD WASHING TABLET

A new formulation enables us to give the public a tablet which :

- ★ Lasts longer.
- ★ Will not soften or break up in use.
- ★ Solves the problem of the soap shortage.
- ★ Lathers extremely well in hard or soft water.
- ★ Is the perfect cleanser.



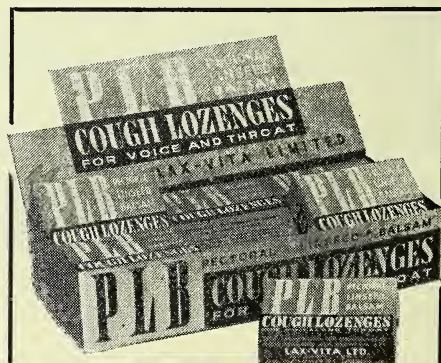
10½
A TABLET

NO COUPONS

Trade enquiries to :

BRITISH SOLVATES LTD.
Wharf Rd., Ponders End, Middx. HOWARD 2231

Scottish Distributors : Southern Mfg. Co., Ltd.,
214 West Regent Street . Glasgow . C.2.



RETAIL PRICE 1/3d. per packet

LIST RATE 8/- per dozen

Purchase Tax 2/8d. per dozen.

All Orders taken in Strict Rotation as
Supplies are Limited.

LAX-VITA LIMITED
66 Victoria Street, London, S.W.1
Phone: VICtoria 9936

New Prices for Benger's Food

Effective on and after April 5th

SIZE OF TIN	RETAIL PRICE (per tin)	WHOLESALE PRICE (per doz. tins)
No. 0	2'-	19'4
No. 1	3'6	34'-
No. 2	6'2	60'-
No. 3	13'6	131'-
No. 4	29'-	261'9



After 27 years!

Though the packs and prices of Benger's Food were altered in 1942 to bring them into line with Government Standards the price per ounce *has not been increased since 1921.*

The new range of prices has been approved by the P.A.T.A. The profit ratio remains unaltered

BENGER'S LIMITED, HOLMES CHAPEL, CHESHIRE

MERTON

LIQUORICE & MENTHOL PELLETS

A popular, economically-priced line for the relief of hoarseness and huskiness of voice and throat. Packed in attractive display outers containing 3 doz.

PRICES:

Wholesalers 44/- Retailers 51/-
Plus 17/- Purchase Tax.

*Order through your usual wholesaler
or direct*



VERVA LTD., HIGH PATH, MERTON, LONDON, S.W.19

Ext Hepatis Liq. B.P.

Ext Hepatis Liq.
PROTEOLISED

Ext Hepatis Tablets

Injectable Liver

2cc Ampoules and in Vials

Competitive Quotations

GEDEON RICHTER (G.B.) LTD.

14/18 WEEDINGTON ROAD,
LONDON, N.W.5

SUNGLASSES

for the 1948 Season

Fitted with **CROOKES LENSES**

Ask your wholesaler for details

Wholesale enquiries to:

ALFRED FRANKS & BARTLETT CO., LTD.
Audrey House • Ely Place • London • E.C.1.

**FINEST ITALIAN
LIQUORICE JUICE STICKS**
in 1 oz. size sticks in
boxes containing

2½ lbs. at 10/- per box
(Minimum 2 boxes. Carr. paid C.W.O.)

ORDER IMMEDIATELY
LIMITED STOCKS
WHOLESALE ENQUIRIES INVITED

The Faylene Manufacturing Company
15 Queens Court, Lower Briggate, Leeds 1
Telephone 22594

We are still making the BEST of it . . .

*P*APER can be made from almost any grade of "scrap"—but as our policy has always been to make only the best grades, lack of suitable raw materials still seriously limits our output.

We would like to thank our trade friends for their understanding during this difficult time, and we aim to continue our service both as to quality of product and competitive price.

Because of fluctuating raw material costs, we shall omit prices from our labels after present printings are exhausted. To assist the trade, complete price lists of our range are available showing purchase tax and profit margins.

And for future reference . . . when materials are more plentiful we hope to offer to the trade several new attractive developments in the field of toilet tissues, facial tissues, paper handkerchiefs, etc.

These are the products of St. Andrew Mills

		RETAIL PRICE (incl. Pur. Tax)
ANDREX	The softest Toilet Tissue known made entirely from purest pulp.	1/2½ per roll
ANDROL	For those who prefer a glazed paper.	1/3 ..
STANEX		1/1 ..
MARVO	Absorbent unglazed paper, not harsh or bulky crepe.	10½d. ..
SAMARITAN		9d. ..
ANDREX PAPER	Indispensable to the housewife, specially treated paper retains strength when wet.	2/6 ..
KITCHEN TOWELS		

Prices are subject to alteration without notice.

Wholesale only

ST. ANDREW MILLS LIMITED

LARKSWOOD · 1014 · 5 · 6

WALTHAMSTOW · E · 17

The Greatest of All Tonics-



WITH A WORLD-WIDE REPUTATION

The familiar Phosferine pack has won for itself an enviable world-wide goodwill. It has only to be shown to be sold. And the sales of Phosferine prove how adequately "The Greatest of all Tonics" lives up to its claims. Make the most of the wonderful popularity of Phosferine by ensuring that your stocks are adequate to meet the demand.

PHOSFERINE

TABLETS and LIQUID

The Registered Trade Mark
"Phosferine" is the property of
PHOSFERINE (ASHTON
& PARSONS) LIMITED.

Retail Prices:

1/6 and 3/8 including Purchase Tax

Sole Distributing Agents in the United Kingdom:

BEECHAMS PILLS LIMITED, ST. HELENS, LANCs.

MEMORANDUM

Note PHONE ABBEY 3624
contact
Stanning Proprietaries
re new stocks of
DRESSINGS-TABLETS
PILLS etc

STANNING PROPRIETARIES
LIMITED
32, ST. JAMES'S STREET, LONDON, S.W.1.
SURGICAL DRESSINGS
TABLETS & PILLS · CHEMIST SUPPLIES
Sole Proprietors of Stanlast Packed Pharmaceuticals

A Point Free Food Addition

SUPPLIES NOW AVAILABLE

SPICER'S

MALT TABLETS

in 6d. glass vials

Charged to Chemists at 51/- per
gross nett in cartons containing
3-gross vials. From Wholesalers.

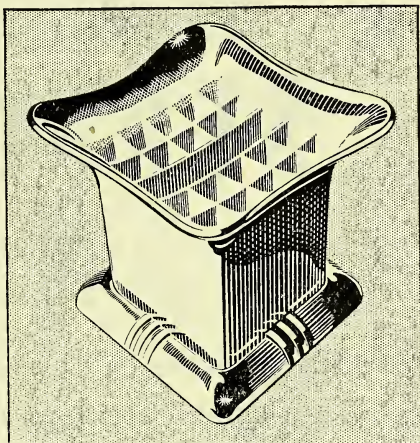
Enquiries to:

AFFINED BASIC CHEMICALS LTD
EMPIRE WORKS, DESBOROUGH ROAD
HIGH WYCOMBE, BUCKS.

HURRY! Send for your FREE 'FREEZONE' Gift NOW!

If you haven't yet applied for your Free Ronson Ashtray, don't waste another minute! Get out that new 'Freezone' Folder you received the other day and complete the form now—while this great Free Gift Offer still holds good.

Remember, this superb Ronson Safety Ashtray is currently being sold at 21/9—but you receive it entirely FREE when you show the new 'Freezone' Display Unit on your counter for one month.



Supplies are limited—so hurry, send in your order now ... this offer definitely closes April 30th, 1948.



This bright new 'Freezone' Display Unit gives you—

- 1 Increased 'Freezone' Sales**
— because your customers will help themselves instead of having to *first* remember they need a corn remedy and *then* ask you for it.
- 2 Extra Profit per Sale**
— because you receive the normal trade discount PLUS a generous Co-operation Allowance.

INTERNATIONAL CHEMICAL CO. LTD.
Chenies Street, London, W.C.1.

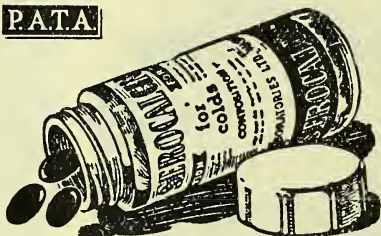
SEROCALCIN..

FOR THE PREVENTION AND TREATMENT OF COLDS

The extensive advertising campaign in all sections of the press and the personal recommendation of regular users have created a constantly increasing demand for Serocalcin. Ample supplies are available now and chemists are urged to maintain adequate stocks.

P.A.T.A.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.



Serocalcin is packed in 20s and 60s.

HARWOODS LABORATORIES LTD WATFORD HERTS.



The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

APRIL 10
1948

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. It is therefore advisable to send instructions as early as possible. All advertisements in this section must be prepaid. Box office numbers 2/- extra.

Sell your business through BRITAIN'S LARGEST AGENCY

Nation-wide Advertising each week in 800 papers producing the maximum number of Buying Clients.

A SERVICE WITHOUT AN EQUAL
Tact, Freshness, Vigour
and High Ethical Standard

A GUARANTEE TO SELL OR NO CHARGE

Inclusive terms: 5% when sold.

No preliminary fee.

No Advertising fee.

**NATIONAL BUSINESS
AGENCY LTD.**

36, EASTCHEAP, CITY, LONDON, E.C.3.

Phone (3 lines) MANsion House 1207, 2748, 2749

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

1/6 for 36 words or less, 3d. for every additional word

RETAIL (HOME)

ASSISTANT. Unqualified, required at once, for counter and dispensing. Permanent post for right applicant. Full details, Manager, Harold Miller, Ltd., 98 High St., Cheltenham.

ASSISTANT required, qualified or unqualified, male or female. No N.H.I. No Sunday or holiday duties. Excellent living accommodation can be arranged. Please state usual particulars. Early Bunn, Ltd., Chemists, 95 High St., Chelmsford, Essex.

BRISTOL. Qualified assistant wanted (either sex). Chiefly for dispensing. Please apply with usual particulars to Strode Cosh & Penfold, Ltd., 69 Easton Rd., Bristol, 5.

DISPENSER WANTED by partnership of three doctors in pleasant Cornish town. Easy hours. Good pay. Apply Box 3/350.

STOCKTAKING FOR INCOME-TAX PURPOSES OR SALE VALUATION

OVER 25 YEARS' EXPERIENCE
AT YOUR SERVICE

B.	Just to yourself
A rrive at	A ccurate
R esults, with	R eliable workmanship
N o dislocation to	R outine of business
E xpert	A dvice
S traightforward	T erms
	write T oday

Chemists own stock sheets priced.
Results available 7 days after valuation.

BARNES & JARRATT

Licensed Appraisers

4 CHARLWOOD ST., LONDON,

S.W.1.

Phone: VICTORIA 5686

BIRMINGHAM. Manager required for branch shop with fairly busy dispensing. Position is a permanency and salary with commission on net profits is offered to suitable applicant. Plenty of scope for pharmacist (either sex) with energy and initiative. Full particulars and when free, to C. L. Highfield, Ltd., Bearwood Road Smethwick, Staffs.

BOOTS, THE CHEMISTS, invite applications from qualified assistants, male and female, particularly those who have recently completed their course of study, and from fully trained unqualified assistants under 35 years of age. Applications, stating age, experience, district preferred, etc., to Retail Staff Department, Station Street, Nottingham.

BRANCH MANAGER wanted. Sole charge. Lady or gentleman. Part-time lady assistant employed. Elders, 16 Dunstable Rd., Luton.

CHEMIST, qualified, wanted to act as branch manager in Buckie. Must be energetic and good business builder. Good living accommodation available. Apply in writing, giving full particulars of experience, age and when available, to The Technical Supervisor, Scottish Co-operative Society, Ltd., Retail Drug Dept., 187 Bogmoor Rd., Shieldhall, Glasgow, S.W.1.

CHEMISTS, qualified, wanted to act as locums in branches in various parts of Scotland for long or short periods. Applications in writing, stating when available and salary required, to The Technical Supervisor, Scottish Co-operative Wholesale Society, Ltd., Retail Drug Dept., 187 Bogmoor Rd., Shieldhall, Glasgow, S.W.1.

CHEMIST or chemist - optician required as manager of branch shop with substantial turnover. 44-hour week and no extra duties. Flat available if required. This is a permanent and progressive post with a good salary and superannuation scheme. Apply to Peterborough Co-operative Chemists, Ltd., Park Rd., Peterborough.

DISPENSER (female) required for the Northampton County Mental Hospital at Berrywood, Nr. Northampton (1,100 beds). Salary and conditions of service in accordance with recommendation of Joint Negotiating Committee (Hospital Staff). Applications, stating age, experience and qualifications to be sent to the Medical Superintendent.

DISPENSER, qualified, required immediately for doctors' practice in East Anglia. Permanency, but locum considered. Box 3/258.

GUERNSEY, CHANNEL ISLANDS. Qualified assistant required. Opportunity later to manage branch. Write C. Stonelake & Co., 5 Smith St., Guernsey, C.I.

HOLBORN. Congenial post of unqualified lady assistant in busy City pharmacy. Apply, Mr. J. Milner, c/o Cross, Chemists, 240 High Holborn, W.C.1. Phone Holborn 7379.

LADY PHARMACIST required with good counter experience for a congenial position in the West End. No Sunday or Bank Holidays; Saturday half-day. Apply, Mr. Summers, Heppells (1932), Ltd., 1 Marble Arch, London, W.1.

LIVERPOOL SUBURB. Qualified manager required mid-May for busy good-class pharmacy in residential district. Photography desirable. Congenial permanent position. Give fullest particulars, experience, salary, etc., in first letter. Allen Jones, 21 Moor Lane, Gt. Crosby, Liverpool, 23.

LONDON, W.11. Manager (qualified) urgently required for working-class business; busy N.H.I. and brisk counter. Suitable man will be paid well and well looked after. Good living accommodation available, if necessary. Write Box 3/343.

LONDON, N. A well-paid, permanent and progressive position in good-class pharmacy is open to a keen and capable male assistant with dispensing experience. Please apply to Cross of Enfield, Ltd., 476 Hertford Rd., Enfield. Phone Howard 2088.

LONDON, S.W.12. Progressive post offered to experienced pharmacist, either sex, in busy retail and dispensing business. Apply with full particulars, stating salary expected, to W. J. Boyes, 61 Balham Hill, S.W.12.

OLD-ESTABLISHED PHARMACY in small Derbyshire town require qualified manager. Must have personality and be quick dispenser. Write in first place, giving references and salary required, to Box 3/359.

MANCHESTER & SALFORD Equitable Co-operative Society, Ltd., invites applications from pharmacists for the positions of manager for central pharmacy and a branch manager. Permanent and progressive positions. Superannuation scheme. Applications, stating age, experience, and salary required, to: Superintendent Chemist, 67 Downing St., Manchester, 1.

NATIONAL CO-OPERATIVE CHEMISTS, LTD. The above Society has vacancies for two Area Supervisors for the South Wales and South-Western Area and the Manchester and Northern Area. The persons appointed will be directly responsible to the Superintendent Chemist for the Society's pharmacies and developments in those areas. Both positions offer exceptional scope for advancement. Applicants must be suitably qualified and should apply in writing, stating age, qualifications, experience, and salary required, to the Secretary, National Co-operative Chemists, Ltd., 1 Balloon St., Manchester, to be received not later than April 13, 1948.

PHARMACIST with optical qualifications required for busy market town pharmacy. Excellent prospects and permanency. House available. State age and salary required. Brownlow, Chemist, Melton Mowbray.

PHARMACISTS wanted (male or female) to manage branches in Fife and Glasgow district. Good salary and conditions, with entry into superannuation fund after initial period of service. Applications in writing, stating age, experience and when free, to The Technical Supervisor, Scottish Co-operative Wholesale Society, Ltd., Retail Drug Dept., 187 Bogmoor Rd., Shieldhall, Glasgow, S.W.1.

POPLAR. Manager (qualified) required for busy pharmacy in Poplar. Good salary offered to energetic man with experience. Permanency with good prospects. Good living accommodation available. Write Box 3/342.

QUALIFIED ASSISTANT of either sex required for busy central pharmacy. Excellent prospects. Permanent situation. Superannuation. Applications with age, experience and salary required, to Secretary, Gillingham Co-operative Chemists, Ltd., 142 High St., Gillingham, Kent.

QUALIFIED MANAGER required for branch shop at Porlock, Somerset. No Sunday or half-day duty. Living accommodation. Apply with particulars, to G. H. Hawkins, The Exmoor Pharmacy, Minehead, Somerset.

ROCHDALE EQUITABLE PIONEERS' SOCIETY, LTD. Applications are invited for the position of pharmacy branch manager with the above society. 44-hour week and superannuation scheme in operation. Applications, with all usual particulars, should be addressed to The General Manager, Rochdale Equitable Pioneers' Society, Ltd., Toad Lane, Rochdale.

SHEFFIELD & Eccleshall Co-operative Society invites applications from pharmacists for position of branch manager of established business, capable of considerable expansion; in pleasant, suburban residential district. Write, stating age, experience, salary required, to Superintendent Chemist, The Arcade, Eccleshall Rd., Sheffield, 11.

SHOULD YOU TAKE PRIDE in your profession and consider yourself a pharmacist of repute and skill, why not join our organisation? You will find conditions of service both interesting and profitable. There are several vacancies, one or two with accommodation. Write for an appointment to discuss terms with the Superintendent Chemist, 54 Maryland St., Stratford, E.15.

SOUTH KENSINGTON. Lady assistant required for counter, toilets and stockkeeping. Hours 9 to 6. No Sunday duty. Apply, B. R. W., c/o Strickland & Co., 41 Thurloe St., South Kensington, S.W.7. Ken. 4186.

SURREY. Pharmacist manager required very shortly for a high-class family pharmacy in pleasant suburban district. Business builder with experience required. Write Box 3/345.

THE BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., invite applications from qualified pharmacists as branch managers. Write, stating age, experience and salary required, to Superintendent Chemist, 32 Sycamore St., Sheffield, 1.

THE BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., invite applications from unqualified assistants as dispensers. Write, stating age and experience, to Superintendent Chemist, 32, Sycamore St., Sheffield, 1.

TIMOTHY WHITES & TAYLORS, LTD., have vacancies in their household stores for managers and senior assistants to train for management of new branches. Experience of hardware trade is necessary. Progressive positions; good remuneration; staff pension scheme. Write, stating age, experience and salary required, to General Manager, Household Stores Section, 70 Vauxhall Bridge Rd., London S.W.1.

Do you know that Canada is one of the world's best markets?

A leading distributing and manufacturing concern, long established in the drug trade, with a wealth of experience, is open to take on another good line, specialty item preferred. Can assume complete responsibility for manufacturing, distributing and merchandising, including advertising. Have introduced and developed many of the leading proprietaries and toilet preparations in Canada. Complete national distribution guaranteed. Only first class people will be considered. Apply Box 3/356, The Chemist & Druggist, 28 Essex Street, Strand, London, W.C.2. Inquiries treated confidentially.

If you have a problem we can likely help you.

UNQUALIFIED male assistant required, age 30-35. West End experience preferred. Apply Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., London, S.W.1. Phone Victoria 2204.

UNQUALIFIED lady assistant required for high-class pharmacy near Croydon. Duties mainly counter; dispensing experience not necessary. Apply, with usual particulars, to Sparrow, Chemist, Purley, Uplands 1370.

WANTED IMMEDIATELY. Full-time dispenser for country practice near Bristol. No evening work or Sundays. Dr. W. Mayne, Bitton, Gloucestershire.

WEST END, LONDON. Qualified assistant, lady or gentleman, required for West End type of business. Duties principally dispensing, and to assist at counter. Good salary. Write Box 3/344.

LOCUMS WANTED

QUALIFIED LOCUM required, May 31 to June 19 inclusive. One assistant kept. No Sunday duty. Full particulars re salary, etc., to Proprietor, H. W. P. Griffiths, M.P.S., The Pharmacy, 76 Commercial St., Kenfig Hill, Glam.

WHOLESALE

A NEWLY QUALIFIED PHARMACIST is required in the advertising department of Parke, Davis & Co. The job is an interesting one in which a close touch with modern medical advances is maintained and a thorough knowledge of medical and pharmaceutical propaganda can be acquired. Apply with full particulars to Advertising Manager, Parke, Davis & Co., Staines Rd., Hounslow, Middx.

ADVERTISING MANAGER'S ASSISTANT required by well-known London firm of chemical and pharmaceutical manufacturers. The work is interesting, covering Press advertising, print, exhibitions and propaganda generally. Experience in advertising is essential and knowledge of chemical and/or pharmaceutical advertising an advantage. Applicants should be keen, intelligent, and able to relieve the department head of routine details. Full particulars, in confidence, to the Advertising Manager, British Schering, Ltd., 167 Gt. Portland St., London, W.1.

AN UNUSUALLY good opportunity occurs for a really first-class salesman used to calling upon wholesale chemists and sundriesmen to join established and progressive company with national distribution. Must be prepared to travel. Car an advantage. Age limit 30 to 45. Good salary, commission, car allowance and all expenses. Excellent prospects. Our own staff have been advised. No testimonials, photos or stamped addressed envelopes. Reply in confidence, giving full details of career and remuneration earned, to Box 3/349.

APPLICATIONS invited by Optrex Ltd., for position of sales representative for Scotland. Car owner preferred. Remuneration: salary and commission, car and hotel allowance. Pension and life assurance scheme in operation. Full details of experience, age, etc., with copy references, to Managing Director, Optrex, Ltd., Wadsworth Rd., Perivale, Middx.

BOB MARTIN, LIMITED, of Southport, invite applications from men of wide experience in the proprietary field, home and export, to undertake the duties of buyer. A sound knowledge of the purchasing of all packaging media, cartons, tins, drums, bottles, display, print, etc., is essential, together with up-to-date methods of stock control. Applicants should also detail any experience in the buying of pharmaceuticals, drugs and general chemicals. The appointment will be progressive. Give fullest details of experience, age, qualifications and salary required with three references, to Managing Director, Bob Martin, Limited, Southport.

BRADFORD. Smart qualified for progressive appointment in control and extension of dispensing department. Mitchell, Chemist, Bradford.

EUCRYL LTD. require a full-time representative (with car) to cover retail houses in Lancashire, Cheshire, North Wales. Write, Sales Manager, 7 & 9 Oakley Rd., Shirley, Southampton.

EXCELLENT SCOPE for a first-class representative offered by old-fashioned London manufacturers of consistently advertised perfumery and toilet preparations. The territory comprises London W., S.W., S.E., Kent, Surrey and Sussex. Applicants should have experience of the trade and be car owners. Liberal salary, expenses and car allowance. Write fully in first instance to Box 3/307.

LANCASHIRE & YORKSHIRE agent or representative required by firm of manufacturing chemists for a popular laxative. Good connection with chemists, Co-operative societies and drug stores essential. A good extra commission line for a keen man; must have own car. Full particulars to Box 3/326.

LONDON. Pharmacist for supervisory position in modern works. Interesting, permanent and progressive position. Box 3/360.

MANUFACTURERS offer high quality powder-puffs as side line to representatives for Scotland, Midlands, Wales, S.W. England and N. Ireland. Samples packed in small box. Large chemist connection essential and car advantage. Liberal commission basis only. Box 3/327.

MANUFACTURING and wholesale chemists require young pharmacist to call upon chemists in Manchester area. Previous experience not essential. Car owner preferred. Full details indicating salary required to Managing Director, Westmacott & Son, Ltd., Manchester, 4.

MEDICAL REPRESENTATIVES required to call on hospitals and doctors in: Scotland: Aberdeen and Highlands; North-East Coast: Northumberland, Durham and North Riding; Liverpool; Hants, Oxon and Berks. Ability and experience in detailing and selling an advantage, but registered pharmacists with a high-class pharmaceutical background would receive thorough training. Residence on territory desired. Age not over 35 years. Full details, with application, to Evans Medical Supplies, Ltd., Home Medical Department, Speke, Liverpool, 19.

MANUFACTURING CHEMISTS, marketing range of superbly presented proprietaries, invite applications from conscientious and thoroughly experienced representatives for the following territories:— (1) London, complete postal area, and Middlesex. (2) Oxford, Northants, Beds, Bucks, Herts, Essex. Sole agencies considered providing not more than two lines handled. Applicants must own car and have well established connections with retail and wholesale chemists, stores and Co-ops. Existing accounts transferred. Full support given. Excellent prospects, progressive remuneration. Complete information, in confidence, essential prior to interview. Include age, basis of remuneration preferred, exact area covered and frequency of calls, if references available. Box 3/352.

OLD-ESTABLISHED CHEMISTS' sundriesmen require full-time representative for West/North-west London. Must be experienced. Preference given to one with own connections, knowing area. Existing remunerative connection will be handed over. Car provided. Full support guaranteed. Salary and/or commission. Staff pension scheme. Full details, references, etc., to James Hardcastle & Co., 20 High Holborn, W.C.1.

OLD-ESTABLISHED north country manufacturer of plasters and first-aid dressings require representative to call on chemists and wholesalers in London area. With car an advantage. State age and experience. Box 3/228.

ORGANON LABORATORIES, LTD., invite applications from suitable candidates for appointment as representatives in the following areas: North-East Counties; Notts, Leics, Derbys and Lincs; Cambridge area; Wilts and Hants; South-East London and Kent; North and East London and Essex; Middlesex area. Must be qualified pharmacists, between 27 and 37, competent to handle professional and trade contacts, drive car (when available), and reside on territory. Experience not essential, training given. Good salary and expenses. Send details of educational training and experience, to General Sales Manager, Organon Laboratories, Ltd., Brettenham House, Strand, W.C.2.

RESEARCH PHARMACIST required for development work in pharmaceutical research laboratory. Aged 25-30, research experience and some acquaintance with manufacturing conditions essential. Apply in writing stating age, qualifications and experience, and quoting reference number 1296 to the Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

REPRESENTATIVE, must be qualified, required by Hirst Brooke & Hirst, Ltd., to take over and develop a soundly-established connection with retail chemists in an area centred around Manchester. Previous experience is an advantage but not essential. Reply in strict confidence to Managing Director, Sheepscar Works, Leeds, 7.

REPRESENTATIVES required for all parts of England and Scotland to carry, on commission, some additional lines which are used regularly by chemists. Please reply with references. Box 3/347.

REPRESENTATIVE required by manufacturing perfumers for Shropshire, Hereford, Worcestershire, Warwickshire, etc. Write, giving full particulars of experience and present employment, to Sales Manager, J. Grossmith & Son, Ltd., 45 Piccadilly, London, W.1.

REPRESENTATIVE required by well-known manufacturing chemists as assistant traveller in the London area. Must be young; some retail experience an advantage. Box 3/363.

REPRESENTATIVE required by manufacturing and distributing house to call upon retail and wholesale chemists in the Yorkshire area. Applicants must have first-class connections. Remuneration, salary, commission and expenses. Write, stating full details, age and experience. Box 3/325.

REPRESENTATIVES (two) required, London and Southern Counties for liquid detergent. Product requires real salesmanship, but brings regular repeat orders. Salary and commission to first-class salesman with proved record. Box 3/354.

REPRESENTATIVES required by old-established London house for (A) Midland Territory, (B) West of England and S. Coast. Applicants should have live connection with retail chemists and preferably some previous retail experience, not necessarily qualified. Please state age, experience and remuneration required to Box 3/346.

REPRESENTATIVES required for London and Provinces for liquid shampoo (prov. patented); regular repeats assured in best class chemists and stores. Small salary, expenses and commission to capable salesman with good record. State area covered. Box 3/330.

REPRESENTATIVES required by ethical pharmaceutical house for two areas (1) Lancs, Cheshire, Staffs, Salop; (2) West and East Riding, Lincs, Derby, Notts, Leicester. Must have existing connection with chemists and previous ethical experience. Salary, expenses and commission or substantial commission only, if precedence given. Unlimited prospects for A.1 men. First-class references required. Reply in detail, giving age, experience, etc., in confidence, to Box 3/321.

SALES MANAGER requires assistant for marketing pharmaceutical product; export and domestic. Good knowledge office organisation essential. Box 214, Curzon International Ltd., 11 Duke of York St., S.W.1.

SHARP & DOHME, LTD., will consider applications for a number of appointments to their medical representative staff in various parts of Great Britain and Ireland. The work consists of introducing ethical specialities, mainly products of original research, to medical men and pharmacists. Applicants should be under 35 years of age, having a medical or pharmaceutical background, and keen to conduct medical propaganda. Previous experience not essential as an initial training will be given. Please submit brief personal details, together with photograph, to Homes Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts.

TABLET MAKER. Experienced foreman required for responsible post in tablet department of new pharmaceutical factory near Edinburgh. Salary in accordance with age and experience. Apply, giving full details, to Box No. 568, c/o Dawsons, 28 Craven St., W.C.2.

TWO REPRESENTATIVES required for London and Home Counties. Applicants should be car owners and have connection with chemists, stores, etc. Energetic co-operation will be required to extend distribution of advertised products and sundries. Remuneration by salary, commission and expenses. Box 3/358.

WANTED. Chemist for analysis and control of pharmaceuticals. Knowledge of brewing processes and analysis an advantage; good prospects. Give full details of age, qualifications, experience, and salary required. Jeffreys, Miller & Co., Ltd., Leyland Mills, Wigan.

WANTED, female staff for London Surgical House in E.C.1: shorthand typist, copy typist, clerk telephonist, surgical fitter and saleswoman. Apply in first instance, in writing, to Holborn Surgical Instrument Co., Ltd., 15 Charterhouse St., London, E.C.1.

WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large industrial concern operating in the Middle East. Will be employed either on development or process work and should be prepared initially to undertake shift work on process plant; should possess B.Sc. degree and preferably have had subsequent industrial experience. Age not over 30. Single men preferred. Salary not less than £560 p.a., according to qualifications, together with allowance in local currency. Free furnished bachelor accommodation, passage out and home, medical attention and kit allowance. Applicants must be of full British parentage and should write stating age, qualifications and experience, quoting Department F.18, to Box 1082, at 191 Gresham House, E.C.2.

SOUTH AFRICA. Required for laboratory, a young single man experienced in modern methods of pill and tablet manufacture. Good salary, three-year contract, outward passage paid. Apply in writing, giving fullest particulars of capabilities, etc., to Box 3/365.

VACANCY arises in Kenya for young, single pharmacist for general pharmaceutical and medical propaganda work. Advertiser has agency for large firm of British chemical manufacturers. Write Box 102, Smiths', 100 Fleet Street, London, E.C.4.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

LOCUM or permanency; over 51 years; London and provincial experience; unqualified; state hours. Harries, 320 Cowbridge Rd., Cardiff.

LOCUMS SEEKING ENGAGEMENTS

LOCUM WORK required by young lady pharmacist for any period May to September. Any district considered, provided reasonable accommodation. Experienced retail and hospital locums. 10 guineas per week. Box 3/295.

UNQUALIFIED MALE ASSISTANT desires locums July and August, London or South Coast preferred. Black, 30 Fitzroy Av., Belfast.

WHOLESALE

ACTIVE young medical propagandist and pharmaceutical sales. Age 30, University education, and 10 years' continuous experience in this field, seeks similar appointment with reputable house. Area: Lancs, Yorks, Westmorland, Cumberland, Northumberland and Durham. Write Box 3/337.

APPOINTMENT REQUIRED. Preferably manufacturing or wholesale. Home or overseas. 23 years' first-class experience, London and Tropics. Retail, wholesale and manufacturing, including extensive buying, advertising and medical promotion. Recently general manager manufacturing wholesale and retail firm in Tropics. Box No. 3/362.

CHANGE OF TERRITORY is desired, preferably to West of England or London area, by first-class representative with 20 years' direct selling experience in the drug, toilet and photographic trades. Highest trade and personal qualifications. Age 43, married; public school education; five years Royal Navy; keen, adaptable and conscientious worker. First-class house wanted where genuine representation and personal effort is appreciated. Box 3/245.

CREATIVE COSMETIC CHEMIST introduces new lines and special preparations for export. Box 3/361.

FIRST-CLASS REPRESENTATIVE, excellent connection, calling chemists, w/s and retail, departmental stores, etc., in West of England and South Wales, desires change with firm of repute. Own car. Salary, commission, expenses. Box 3/338.

REPRESENTATIVE, London, seeks additional firm. Good knowledge drugs, etc. Own car. N. B. L., 541 Seven Sisters Rd., N.15.

REPRESENTATIVE. Experienced, excellent connection chemists and stores in Cheshire, Yorkshire, Midlands, North-East Coast, desires change. Salary, commission and expenses. Box 3/357.

REPRESENTATIVE, own car, having excellent connection chemists, stores, hairdressers and Co-ops. in Lincs, Notts, Derbys, Leicester, Northants and Staffs, seeks position with a high-class firm. Box 3/328.

REPRESENTATIVE with sound connection wholesale and retail chemists, Co-ops., requires additional line, north-east counties. Car owner. Comm. basis. Box 3/333.

SALES MANAGER (F.S.M.A.) with proven record of successful selling and executive experience; specialised knowledge of marketing, selling and distribution through the chemists' trade and chain stores; thoroughly conversant with budgetary control, sales forecasting and organisation, export practice and all phases of sales management. Box 3/296.

WEST COUNTRY. Experienced representative selling one nationally advertised line, which is the leader in its field, and sold by all chemists, seeks one other firm of repute. Present house agrees to dual representation on understanding that the line to be handled is a first-class product. Complete coverage and regular calls guaranteed. All replies will, of course, be regarded as strictly confidential. Box 3/334.

APPOINTMENTS

MIDDLESEX COUNTY COUNCIL

LOCUM PHARMACIST (fully qualified) required by MIDDLESEX COUNTY COUNCIL at ASHFORD COUNTY HOSPITAL, Ashford, Middlesex, from June 7-August 14 inclusive. Salary from 8-10 gns. per week incl. according to experience. Application stating age, quals., exper., with copies of up to three testimonials to MEDICAL DIRECTOR of Hospital by April 17 (quoting D.892CD).

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST required by MIDDLESEX COUNTY COUNCIL at HAREFIELD COUNTY HOSPITAL, Harefield, Middx. J.N.C. (Hosp. Staffs) salary, £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment, subject to medical exam. Application stating age, quals., exper., with copies of up to three recent testimonials to MEDICAL DIRECTOR at Hospital IMMEDIATELY (quoting D.950CD).

MIDDLESEX COUNTY COUNCIL

WEST MIDDLESEX COUNTY HOSPITAL, ISLEWORTH, MIDDX.

(a) **ASSISTANT PHARMACIST**, J.N.C. (Hosp. Staffs) scale, £370 p.a.-£450 inclusive. Similar experience may determine commencing salary. Must hold one of Pharmaceutical Society's qualifications. Whole-time duties under Medical Director and Chief Pharmacist. Established, subject to medical exam.

(b) **LOCUM PHARMACIST** required, immediately, for an indefinite period. Salary 8-10 guineas inclusive, according to experience. Applications to Medical Director of Hospital, stating age, qualifications, experience, with up to three recent testimonials (quoting D.570 CD).

C. W. RADCLIFFE,

Clerk of the County Council.
Middlesex Guildhall,
S.W.1.

MIDDLESEX COUNTY COUNCIL

LOCUM ASSISTANT PHARMACIST required by MIDDLESEX COUNTY COUNCIL at NORTH MIDDLESEX COUNTY HOSPITAL, Edmonston, N.18. Salary 8-10 gns. per week, incl., according to experience. Applications IMMEDIATELY to MEDICAL DIRECTOR of Hospital (quoting D.826CD).

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

**ROYAL VICTORIA INFIRMARY,
NEWCASTLE-UPON-TYNE**

Royal Victoria Infirmary, Newcastle-upon-Tyne (800 beds) (Teaching Hospital of the University of Durham) requires a Pharmacist for locum duty (June to August), preferably with the Ph.C. qualification. Hospital experience will be an advantage but is not essential.

Apply in writing giving full particulars of age, experience and previous appointments, to Dr. A. W. Sanderson, House Governor.

**QUEEN MARY'S HOSPITAL FOR THE
EAST END
Stratford, E.15**
ASSISTANT PHARMACIST

Applications are invited from registered pharmacists for this appointment. Salary scale, £370 per annum with annual increases of £15 up to £450 per annum. Commencing salary within Scale according to qualifications and experience. Federated Superannuation Scheme in force.

Applications giving full particulars of age, qualifications and experience, and copies of recent testimonials, should be sent as soon as possible to the undersigned.

M. J. HUNTLEY,
House Governor and Secretary.

**SOUTHEAST MUNICIPAL HOSPITAL
Rochford, Essex**
LOCUM ASSISTANT PHARMACIST

Locum Assistant Pharmacist required for 6 weeks Holiday Relief after April 1, 1948, dates to be arranged with successful applicant. Apply in writing to the Medical Superintendent, Southend Municipal Hospital, Rochford, Essex, stating dates available. Salary £8 10s. per week, non-resident. All possible assistance will be given in finding accommodation in the district without obligation to the hospital.

ARCHIBALD GLEN,
Town Clerk.

Municipal Buildings, Southend-on-Sea,
March 20, 1948.

THE STOCKPORT INFIRMARY

Locum Pharmacist required for one week May 31st to June 5th both dates inclusive, and for two weeks September 13-25th both dates inclusive. Terms £10 10s. per week, plus railway fare. Apply to the Secretary-Superintendent.

REDHILL COUNTY HOSPITAL,

EDGWARE, MIDDLESEX.

REGISTERED ASSISTANT PHARMACIST required. J.N.C. (Hosp. Staffs) salary £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Whole-time, established, pensionable, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately (quoting D.815 CD). No forms.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at:
ST. HELIER COUNTY HOSPITAL,
Carshalton.

Commencing salary on grade £370 x £15—£430 x £20—£450 p.a. inclusive.

Applications in writing, stating age, qualifications and experience with copies of not more than three recent testimonials, should be sent to the Medical Superintendent of the Hospital.

SURREY COUNTY COUNCIL

ST. LUKE'S HOSPITAL, GUILDFORD.

PHARMACEUTICAL PUPIL (male or female) required. Preference will be given to candidates who have passed the final examination for a University Degree in Pharmacy or the Pharmaceutical Chemist Qualifying Examination. Salary will be £200 per annum inclusive for candidates who have passed one or other of these examinations, and in the case of other candidates will vary according to age and experience of pharmaceutical work possessed by them. Further particulars may be obtained from the Medical Superintendent at the Hospital, to whom applications by letter, stating age, qualifications and experience, together with copies of three testimonials, if possible, should be sent.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENT with chemists' connections required to carry an additional line of small cosmetic bottles. Write full particulars first application, to Box 3/331.

AGENTS wanted all over the country calling on wholesale chemists, Co-ops., grocers and sundriesmen to carry additional nationally advertised lines. Commission basis. Write, giving area covered, and rough details of present lines carried, to Box 3/280.

DISTRIBUTING HOUSE, with U.K. coverage and first-class sales force, are open to consider one or two additional products offering permanent business. Write Box 511, Arthur S. Dixon, Ltd., 229 High Holborn, W.C.1.

OLD-ESTABLISHED London drug house has agency or part-time representation to offer in South Wales. Gentlemen with good connection and carrying non-clashing lines invited to reply to Box 3/323.

OLD-ESTABLISHED manufacturers of toilet preparations require agents having established connections with chemists, stores, and Co-op. societies for the following territories. Kent, Surrey, Sussex, Hants, Essex, Suffolk, Norfolk, Lincs, Midlands, Yorkshire, Durham, Northumberland, Scotland. Lines offered are in unrestricted supply. Only gentlemen with 100 per cent. coverage should reply. Box 3/320.

WHOLESALE SUNDRIES HOUSE require agents calling on hairdressers, etc., in the London area. Only those with own connection and first-class references considered. Apply Box 3/244.

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements and Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

AGENCIES WANTED

1/6 for 36 words or less, 3d. for every additional word

AGENCIES REQUIRED. S.E. area, by established well-connected agents. Thorough and effective representation by qualified salaried representatives with cars, calling on wholesalers, retailers and stores. Box 3/351.

TRAVELLER. long-established connection in the Midlands, with wholesale and retail grocers, drysalters, chemists, hardwaremen, stores, desires agencies for nationally advertised lines. Box 241, 19-21 Corporation St., Birmingham, 2.

WELL-KNOWN REPRESENTATIVE (20 years same company), covering wholesale and retail chemists, departmental stores, wholesale warehousemen, West Country, embarking on career as agent, would be pleased to hear from interested firms of repute. Own car. Telephone. Apply Box 3/299.

BUSINESS OPPORTUNITIES

1/6 for 36 words or less, 4d. for every additional word

DELIVERIES. We can store your goods and deliver in London area. Own van, 10-cwt. On commission basis. Bank references furnished. Box 3/329.

MANUFACTURERS of non-quota products in big demand wish to contact distributors to take over all sales, with financial interest. Large established turnover. Box 3/272.

MANUFACTURING CHEMISTS have facilities and space available for the manufacture, packing and bottling of domestic, toilet and industrial products. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Tel. Reliance 3435.

MANUFACTURERS of two branded non-quota toilet articles well introduced for years with chemists, Co-ops., etc., wish to contact sole distributors for single areas or Gt. Britain, possibly with financial interest to enable increased national advertising already started. Box 3/336.

PERFUMERY and cosmetics. Manufacturer of high-grade products well received by the trade and public, requires additional capital for development; or would consider selling outright with quotas, etc. The series is suitable as additional lines for existing manufacturer, or production could be maintained at present modern factory. Excellent opportunity for distributors requiring first-class lines. Box 3/319.

PHOTOGRAPHIC ENLARGING. We are specialists in quality enlarging for chemists' shops. 4-day service. Prices: post card, 8d.; half-plate, 1/6; whole plate 2/6. 33% discount to traders. 359 Harrow View, Harrow, Middx.

TABLETS. A well-known food manufacturing company have available tableting capacity. Large quantities can be handled quickly and efficiently under hygienic conditions. Complete packaging can be arranged if required. Inquiries to Box W.731, Haddons', Salisbury Sq., London, E.C.4.

TOOTH PASTE, COSMETICS, toilet preparations, patent medicines. Sole selling rights sought by City import-export merchants for the British West Indies. Replies to Box 3/250.

WANTED FOR EXPORT to Switzerland. Basic chemicals for pharmaceutical industry. Box 3/257.

PRACTICAL METHODS OF URINE ANALYSIS

1944 Edition now available. Rewritten, thoroughly Revised and Up to date. 8/3 Post Free.

THE CHEMIST & DRUGGIST,
28 Essex Street, London, W.C.2

BUSINESSES FOR DISPOSAL

1/6 for 36 words or less, 3d. for every additional word

ABERDEEN. For sale, chemist's business in residential and working-class area. Low overheads. Full particulars from Messrs. Edmunds & Ledingham, 2 Golden Sq., Aberdeen.

EDINBURGH. Old-established dispensing business showing good profit. Turnover £3,300. Well fitted. Stock about £600. Shop property assessed at £36 for sale with business. Fuller particulars from Johnston, 19 Durham Rd., Portobello, Midlothian. Phone 81679.

EXCEPTIONAL OPPORTUNITY. Freehold premises for disposal, main road popular S.E. coast resort. Shop and flat, modern throughout, new fittings, good business, new stock optional. Genuine inquiries and principals only. Box 3/353.

FOR SALE. Hairdressing and chemistry business. Well-established manufacturing company situated in centre Belfast. Numerous rights and licensed names available for manufacturing. Excellent modern premises (floor space 5,000 sq. ft.) with central heating. Long lease. Valuable stocks of raw material and manufactured goods. Turnover £16,000. Particulars, to principals only, from H. V. Kirk Palmer & Co., Accountants and Auditors, 30 Donegall Place, Belfast.

NORTH MIDLANDS. Country business without opposition. Excellent opportunity for qualified chemist. Run as a drug store for the last 18 months. Including freehold property with cottage adjoining, £1,500, plus s.a.v. Box 3/332.

PROMINENT DRUG STORE, suburban London, Essex border. Takings £9,000-£10,000 yearly. Lock-up. Accommodation available. Scope chemist, optician. Goodwill £2,500, stock at value. Good buying accounts. Box 3/355.

SOUTH SHIELDS. Sound cash branch business, busy street. Must sell. Difficulty obtaining pharmacist. Well fitted and stocked. Modern frontage. Weighing machines, etc. Turnover increasing. Price £3,600 or offer. Lease granted or will sell property. Turner Bell, 3 St. John's Terr., South Shields.

£2,000 WILL SECURE the goodwill, fittings and stock (about £750) of an old-established drug store in a busy part of S.W. London. Nett profit over £12 per week. Lock-up shop with low rental under good landlords. Excellent quotas. All cash trade. National Cash Register. Owner leaving London. Write Box 3/339.

TRADE MARKS

THE FOLLOWING registered Trade Marks were assigned on the 30th October, 1947, by Corn Products Co., Ltd., of Wellington House, 125-130 Strand, London, W.C.2, to Corn Products Refining Co., of 17 Battery Place, New York, U.S.A., without the goodwill of the business in which they were then in use. No. 579244; Mark, Coproco; Goods, raw or partly prepared vegetable, animal and mineral substances used in manufactures not included in other classes. No. 579245; Mark, Coproco; Goods, glucose and starch and derivatives of glucose and starch all for use as food or as ingredients in food.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

BOTTLES, NEW. 20 gross 8-oz. screw mouth, white flint, 28/- gross. Free delivery. New, 20 gross 4-oz. ribbed oval white flint c/m, 14/- gross. W. K. N.L.B., 545 Seven Sisters Rd., N.15.

BOTTLES. 2,500 gross 4-oz. amber square. 2,000 gross 4-oz. amber cannons. 800 gross 1-oz. medical flats. 250 gross 4-oz. clear glass cannons. Samples and prices apply Rapidol, Ltd., 22 St. Margaret's Rd., Hanwell, W.7.

FINEST QUALITY terpeneless lemon oil for sale. Apply Box 3/324.

FOR SALE. 2 complete chemists' showcases. 9 ft. high, 4 ft. wide and 9 in. deep. Glass front. Hinged doors. In excellent condition. Any offers? Popular Medicines, Ltd., Loates Lane, Watford, Herts.

IRISH-GROWN medicinal herbs, including Belladonna, Hyoscyamus, Stramonium, Digitalis, Comfrey, Burdock, etc. Roots, barks, berries, etc. Inquiries invited for export. Christopher O'Connor & Co., Ltd., St. Catherine's, Leixlip, co. Kildare, Eire. Tel. 29.

OFFER. 24½ cwt. British chopped belladonna herb 0.526. Drug certificate available. Box 3/341.

SURPLUS STOCK of disinfectants in 6-oz. bottles for sale. Box 180, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

SURPLUS. For sale, 30 gross talc tins, oval enamelled green. 65/- per gross carr. forward. Sample tin 9d. D. Mitchell, M.P.S., Commercial Sq., Haywards Heath.

WE CAN SUPPLY absorbent wool of Dutch manufacture, packed in one pound rolls. Available in one cwt lots only, at 2s. 7½d. per lb. for hospital and 3s. 2½d. per lb. for best. Both prices subject to plus 10% duty charges. Edwards Surgical Supplies, 66 Mortimer St., London, W.1.

WANTED

8/6 for 36 words or less, 3d. for every additional word

BOTTLES. 26-oz. and 13-oz. wine or champagne bottles required. Box 1/853.

GLYCERINE. High price paid for small or large quantities. Supplies urgently required. Particulars, Box 3/322.

GLYCERINE, chemically pure, required in any quantity. Cash by return. Box 3/318.

GLYCERINE, industrial pale straw or B.P., urgently required. State price and quantity (1 cwt. minimum). George Rice, Ltd., Hudson Bay Works, Warton Rd., Stratford, E.15. Telephone: Maryland 1222.

LACTOSE B.P. Quantity wanted; large quantities urgent; also white petroleum jelly B.P., glyceryl monostearate, vanillin, phenacetin and glycerine; also interested in Government surplus stocks of bandages, etc. Box 3/253.

SODA ASH. 2-20 tons, 58% (light sodium carbonate). Reply Box 3/364.

SODIUM SESQUICARBONATE required in large or small quantities. Please write stating price and quantity available. Particulars to Pola Manufacturing Co., 22A Green Lane, Penge, Sydenham 7524.

STEARIC ACID, triple pressed, required in large quantities. Box 147/850.

STEARIC ACID (triple pressed) wanted in large or small quantities. B.P. glycerine available if required as part payment. Box 3/189.

SYRUP SIMPLEX and syrup of tolv wanted in carboys. Large quantities required; also white petroleum jelly, B.P., lactose, B.P., glycerine and phenacetin, vanillin. Box 3/333.

WANTED. Phenacetin, glycerine, required by manufacturing chemists. Offers to Box 2/307.

WANTED. Glycerine B.P. or pale straw. State quantity available and price. Box No. 1319, Mason, Peacock, 184 Strand, W.C.2.

WHITE PETROLEUM JELLY wanted, also supplies of white oil, stearic acid. Good price paid for glycerine. Box 3/348.

WEIGHING MACHINES, 1d. slot, wanted. Any make or condition: Avery, Salters, Autoways, etc. Send full particulars and price to Bolland, 41 Fellbrigg Rd., E. Dulwich, London, S.E.22.

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COTTON WOOL, English, no duty. 4-oz., 8-oz., or 16 oz. sizes. Hospital or B.P.C., from 56 lb. upwards, any size. Limited quantities, normal price. Poldens, Thermometers, Instruments, Sundries, 10 Burney Ave., Surbiton.

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PLANT FOR SALE. Periflo Pin Disc Mill, Model "O," in first-class condition, fitted on stand and complete with 1½ h.p. motor, single phase, 230 volts. Write or 'phone Southon Laboratories, Ltd., Upper Richmond Rd., S.W.15.

SET OF SHELVES with drawers and lockers; also small counter case, suit drug stores. Can be viewed in Sheffield. Box 3/340.

SURPLUS. 100 rolls of bromide glossy, grade 3 normal in sealed tins. Each roll 1,000 ft. x 9½ in. Carbot, Ltd., 201-205 Long Lane, London, S.E.1. Phone Hop 1762.

SURPLUS. Opal jars with bakelite caps, 14 gross, 30 c.c. at 43/- gross. 10 gross amber jars, 1 ounce, at 22/- gross. Ramsons, Valentine & Co., Ltd., 116 Victoria St., London. Phone Victoria 7982.

SURPLUS. Bromide glossy, normal grade 3 in. sheets 9 in. by 7½ in. at 25/- per gross packet post free. Carbot, Ltd., 201-205 Long Lane, London, S.E.1. Phone Hop 1762.

AUCTIONS

Important Sale at Short Notice
STAFFORDS, WESTERN ROAD,
BRIGHTON.

Littlewoods having purchased these Stores, a large amount of Trade Equipment surplus to requirements will be sold by Auction by B. Norman & Son on Thursday, April 15, at 2.30 p.m.

The Equipment for disposal includes showcases suitable for general fancy goods, etc., and other departmental trades, Plate-glass counters. Counter nests of drawers. Mirrors. Lamson Cash Registers (practically new). Display platforms and blocks. Q.S. fixtures. Open stock display fittings, etc.

On view day prior. Catalogues at the premises and of the Auctioneers, 2-5 Little Britain, London, E.C.1. Tel. Mon. 8501.

REMOVED TO SALE ROOMS for convenience of disposal. 2/5 Little Britain (close to G.P.O.), London, E.C. Chemists' shop fittings, including drug runs, wall showcases, plate glass counters, mirrors, cash desk, tills, plate-glass shelves, fixtures for books, etc., office furniture. B. Norman & Son, will sell by Auction at their rooms as above, Wednesday, April 28, at 1.30 p.m. View day prior. Catalogues (3d. post free) on application. Tel. Mon. 8501.

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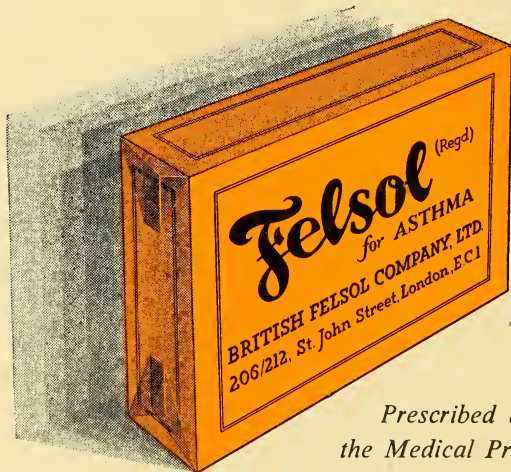
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